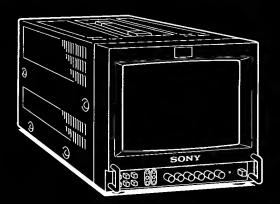
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SERVICE MANUAL



US Model Canadian Model

PVM-8041Q

Chassis No. SCC-E96A-A

PVM-8044Q

Chassis No. SCC-E96C-A

SPECIFICATIONS

Video signal

Color system

PAL, SECAM, NTSC_{3.58}, NTSC_{4.43}

Resolution

PVM-8044Q: 450 TV lines PVM-8041Q: 250 TV lines

Aperture correction -4.0 dB - +6.0 dB (at 3.0 MHz)

Frequency response 6.0 MHz (-3.0 dB) at all inputs Synchronization

AFC time constant 1.0 msec.

Picture performance

Normal scan

6% over scan of CRT effective screen

area

Underscan

3% underscan of CRT effective screen

area

H. linearity

Less than 7.0% (typical)

V. linearity

Less than 7.0% (typical)

Convergence

Central area: 0.43mm (typical)

Peripheral area: 0.53mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation

3.0% D65

Color temperature

Inputs and Outputs

Inputs

Y/C IN: 4-pin mini DIN connector

(See the pin assignment on page 2.)

VIDEO IN: BNC connector 1Vp-p ± 6dB, sync negative AUDIO IN: phono jack, -5 dBs, less

than 47k ohms

R/R-Y, G/Y, B/B-Y: BNC connector R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative,

75 ohms terminated

R-Y, B-Y channels: 0.7 Vp-p, ±6 dB

Y channel: 0.7 Vp-p, ± 6 dB

(Standard color bar signal of 75%

chrominance)

EXT SYNC IN: BNC connector Composite sync 4 Vp-p, ±6 dB,

negative

Loop-through outputs

Y/C OUT: 4-pin mini DIN connector

VIDEO OUT: BNC connector, 75 ohms terminated

AUDIO OUT: phono jack EXT SYNC OUT: BNC connector,

75 ohms terminated **AUDIO OUTPUT 0.5W**

Tally/remote input

TALLY/REMOTE: 8-pin mini DIN connector (See the pin assignment

on page 2.)

General

Power consumption 45 W Max at AC operation

38 W at DC operation

- Continued on next page -



TRINITRON® COLOR VIDEO MONITOR

Power requirements 120V AC, 50/60 Hz

12V DC, with the Sony NP-1A/1B battery pack (not supplied) or AC-500 AC power adaptor (not supplied)

Operating temperature range 0 - 35 °C

Storage temperature range

-10 - +40 °C

0 - 90%

Humidity Dimensions

Approx. 217 x 217 x 352.5 mm (w/h/d)

(8 5/8 x 8 5/8 x 14 inches)
not incl. projecting parts and controls
Weight Approx. 7.8 kg (17 lb 3 oz)
not incl. battery packs
Accessory supplied AC power cord (1)

Design and specifications are subject to change without

Pin Assignment

Y/C iN connector (4-pin mini DiN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier- input	300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA- input	GND

TALLY/REMOTE connector (8-pin mini DiN)



Pin No.	Signal
1	Blue only
2	H/V delay
3	GND
4	INT/EXT SYNC
5	Tally
6	Underscan/normal scan
7	A/B or RGB/component
8	RGB/LINE

For remote control, connect the pin of the desired function to pin 3 (GND).

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
 Make sure the end is not broken off, and has the plastic cap on it.
 Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- 8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

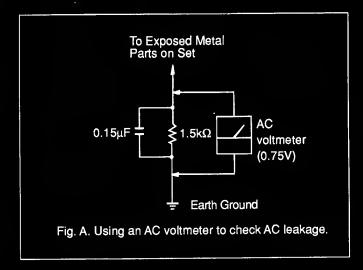
LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



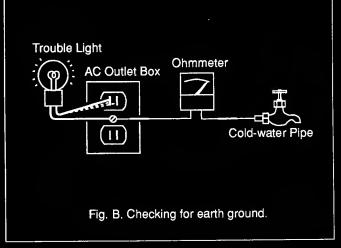


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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \$\tilde{\Delta}\$ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAPAU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE À SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU L'ORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

1-1. FEATURES

Four color systems available

The monitor can display PAL, SECAM, NTSC3.58 and NTSC4.43* signals. The appropriate color system is selected automatically.

* A signal of NTSC4.43 is used for playing back NTSC recorded video cassettes with a video tape recorder/player especially designed for use with this system.

Super Fine Pitch Trinitron picture tube

(PVM-8044Q only)

The Super Fine Pitch Trinitron picture tube provides a high resolution picture. Horizontal resolution is more than 450 TV lines at the center of the picture.

Blue only picture

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

Analog RGB/component input connectors

Analog RGE or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

Y/C Input connector

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Comb filter

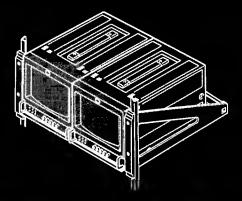
When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

Automatic termination

The Y/C, VIDEO IN and EXT SYNC IN connectors are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

EIA standard 19-inch rack mounting

By using an MB-507 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-507.



For the Customers in the USA

INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

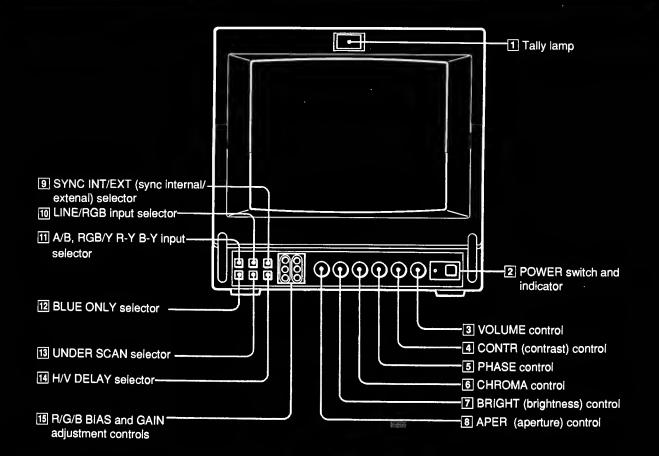
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the Customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front



1 Tally lamp

2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

The POWER indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

3 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

4 CONTR (contrast) control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

5 PHASE control

This control is effective only for the NTSC_{3.58} and NTSC_{4.43} color systems. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

Notes

- The PHASE, CHROMA and APER control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component singals.
- The PHASE control setting is effective only for the NTSC system.

6 CHROMA control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

7 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

8 APER (aperture) control

Turn clockwise for more sharpness and counterclockwise for less.

9 SYNC INT/EXT (sync internal/external) selector

Keep this button released (INT) to operate the monitor on the sync signal from the displayed composite video signal.

Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

10 LINE/RGB input selector

Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE A or LINE B connectors. Depress this button (RGB) for a signal fed through the RGB connectors.

11 A/B, RGB/Y R-Y B-Y input selector
When the LINE/RGB input selector is set to LINE,
keep this button released (A) for a signal fed through the
LINE A connectors. Depress this button (B) for a signal
fed through the LINE B connectors.

When the LINE/RGB input selector Is set to RGB, select the RGB signal or the component signal which is fed through the RGB input connectors. Keep this button released (RGB) for the RGB signal. Depress this button (Y R-Y B-Y) for the component signal.

12 BLUE ONLY selector

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video noise.

13 UNDER SCAN selector

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

14 H/V DELAY selector

Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

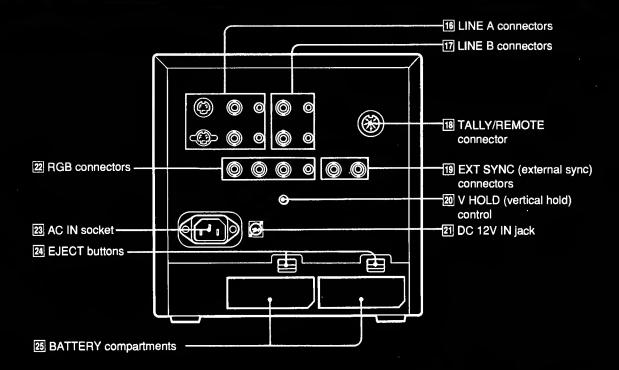
15 R/G/B BIAS and GAIN adjustment controls

Used for white balance fine adjustment. BIAS and GAIN controls are provided for the R (red), G (green) and B (blue) screens.

BIAS: Adjust the white balance and brightness of the screen at the lowlight.

GAIN: Adjust the white balance and brightness of the screen at the highlight.

Rear



16 LINE A connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector and the A/B, RGB/Y R-Y B-Y selector on the front panel released (LINE and A).

Note

The Y/C IN connector has a priority over the VIDEO IN connector.

When a plug is connected to the Y/C IN connector, the VIDEO IN connector is automatically disconnected.

17 LINE B connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector released (LINE) and depress the A/B, RGB/Y R-Y B-Y selector (B) on the front panel.

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.

VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

18 TALLY/REMOTE connector (8-pin mini DIN)

Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can be used for connecting a remote controller. For the pin assignment of this connector, see "Specifications" on page 2.

19 EXT SYNC (external sync) connectors

IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector (EXT) on the front panel.

OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

20 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

21 DC 12V IN jack (XLR, 4 pln)

Connect the Sony AC-500 AC power adaptor (not supplied).

22 RGB/component input connectors

R/R-Y, G/Y, B/B-Y (BNC), AUDIO (phono):

To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB). When the SYNC INT/EXT selector on the front panel is released (INT), the monitor operates on the sync signal from the G/Y channel.

To monitor the analog RGB signal

Connect to the analog RGB signal outputs of a video camera having no sync signal. Keep the A/B, RGB/Y R-Y B-Y selector on the front panel released (RGB).

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal outputs of a Sony BetaCam video camera. Depress the A/B, RGB/Y R-Y B-Y selector on the front panel (Y R-Y B-Y).

23 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

24 EJECT buttons

Press the EJECT button upwards to remove the battery pack.

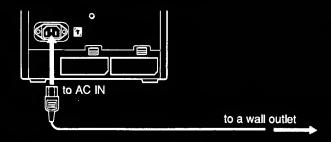
25 BATTERY compartments

Insert the NP-1A/1B battery pack (not supplied).

1-3. POWER SOURCES

House Current

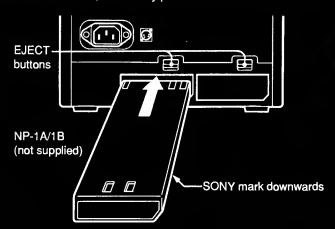
Connect the supplied AC power cord to the AC IN socket and to a wall outlet.



When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

Rechargeable Battery

The monitor can operate with one or two battery packs. For extended use, two battery packs are recommended.



To remove the battery pack, press the EJECT button upwards.

For charging, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

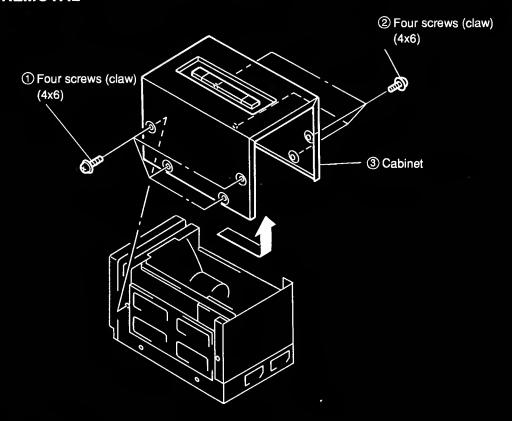
Note

Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack(s).

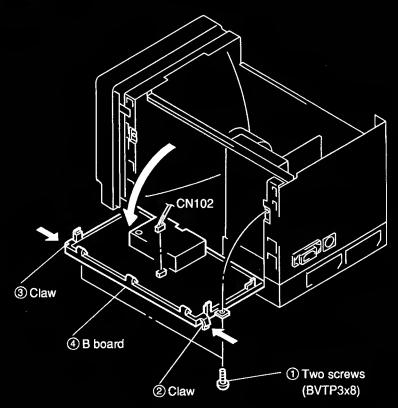
МЕМО

SECTION 2 DISASSEMBLY

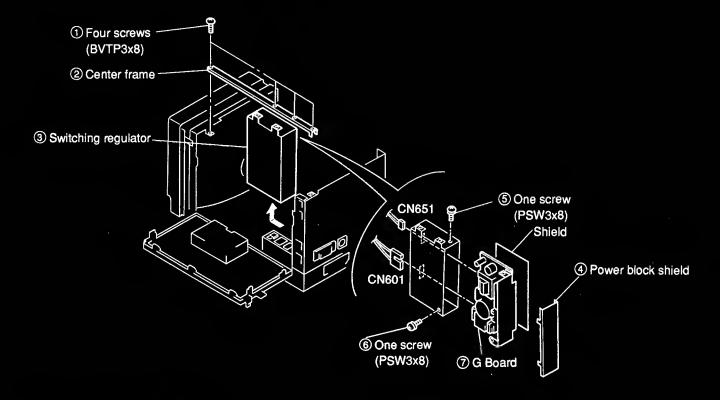
2-1. CABINET REMOVAL



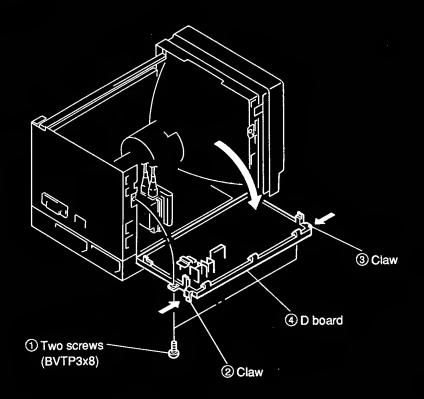
2-2. B BOARD REMOVAL



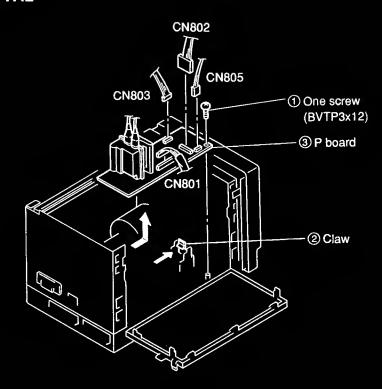
2-3. SWITCHING REGULATOR REMOVAL



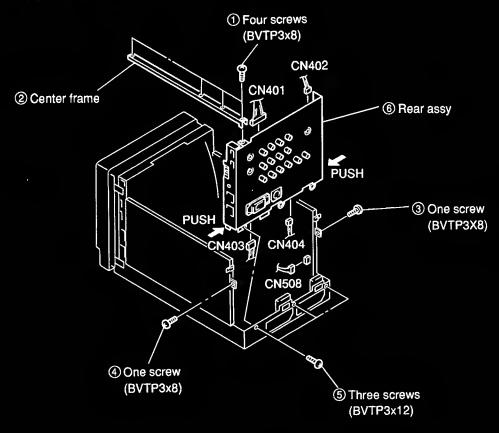
2-4. D BOARD REMOVAL



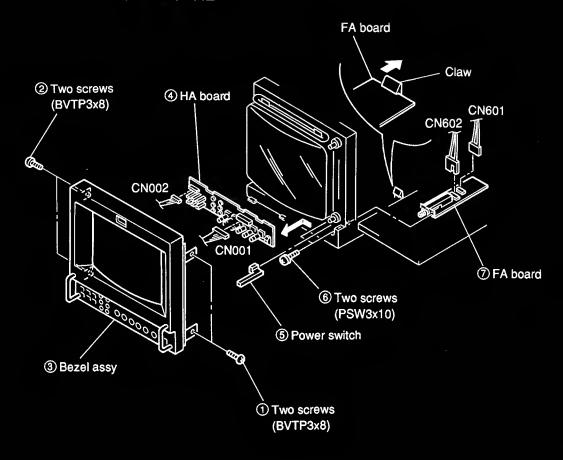
2-5. P BOARD REMOVAL

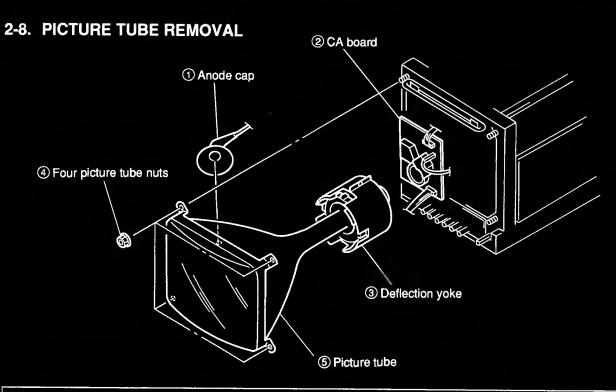


2-6. REAR ASSY REMOVAL



2-7. HA AND FA BOARDS REMOVAL





Note: Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

ADHERING PROCEDURE OF ANODE CAP.

- Clean PICTURE TUBE ANODE CAP with ethnaol to remove original RTV.
- 2. Dry clean face with air.

3. Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

Part. No. 7-322-065-19

<u>Description</u>

Silicone (RTV) KE-490W

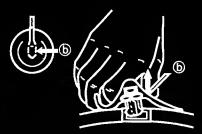
- 4. Install ANODE CAP.
- Adeguately apply RTV to the entire picture tube anode area, piace the anode cap onto the picture tube and push it down securety so that no air pockets remain beneath the cap.
- 6. Dry more than 12 hours at room temperature.

REMOVAL OF ANODE-CAP

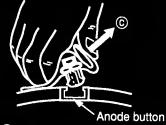
REMOVING PROCEDURES



1 Turn up one side of the rubber cap in the direction indicated by the arrow a.



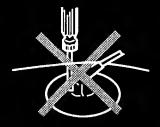
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

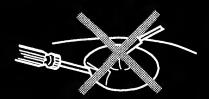


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A metal fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly!





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control	80%
BRIGHTNESS control	50%

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

Note: Test equipment Required.

- 1. Color Bar/Pattern Generator
- 2. Degausser
- 3. Color Analyzer (Minolta)
- 4. Luminance Level Meter

3-1. BEAM LANDING

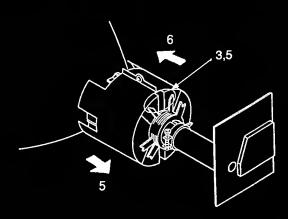
Precaution

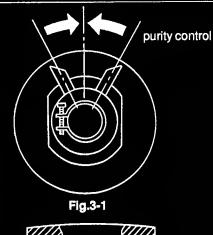
- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force
- 2. Turn the power switch for the unit ON and erase the magnetic force using a degausser.

(1) Beam Landing

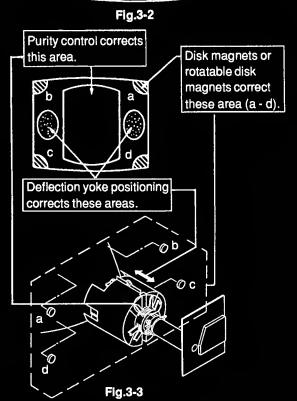
- 2. Adjust the white balance, G2 voltage and convergence roughly.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3-1.
- 4. Switch over the pattern generator to green.
- 5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig.3-2)
- 6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- 7. When landing at the corners is not right, correct by using the magnet. (Fig.3-3)
- 8. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

CAUTION: When correction magnet is used, be sure to degauss the unit.





BLU RED-



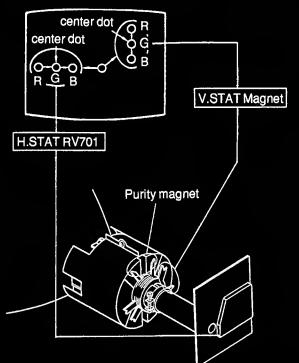
3-2. CONVERGENCE

(1) Horizontal and vertical Static Convergence Adjustment on the Center of Screen.

 Before starting, perform V. SIZE, V. CENT, H.SIZE, H.CENT and Screen Distortion Adjustment rightly.

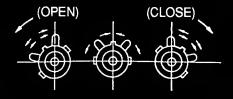
(Static Convergence Adjustment)

- 1. Receive a dot signal, setting BRIGHTNESS minimum and set CONTRAST to normal.
- 2. Adjust H.STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- 3. Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)



* If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform adjustment using V.STAT at the same time while tracking.

(Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.)



- 4. When the V.STAT magnet is moved in the direction of arrow A and b, red, green and blue dots move as shown below.
- ① When moving the V.STAT Magnet open or close.



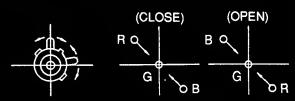
② When moving the V.STAT magnet counterclock wise.



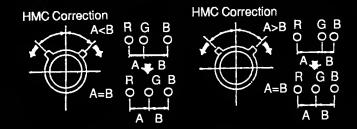
3 When moving the V.STAT magnet clockwise.



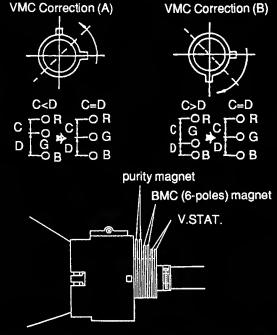
4 When tilt the V.STAT magnet and open or close.



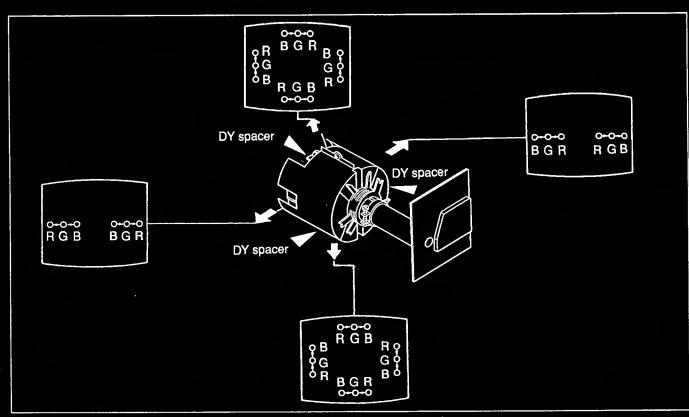
- * If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.
- 5. HMC and VMC correction for BMC (6-Poles) magnet.
- ① HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



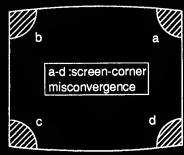
② VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

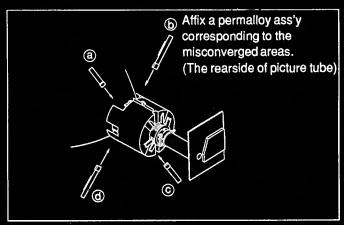


- (2) Horizontal and Vertical Dynamic Convergence Adjustment at the Environs of the Screen (Dynamic Convergence Adjustment)
- 1. When there is misconvergence at the sides of screen, adjust for best convergence as follows by moving the deflection yoke.
- Loosen deflection yoke screw. Remove deflection yoke spacers.
 Move the deflection yoke for best convergence. Tighten the deflection yoke screw. Install three deflection yoke spacers.



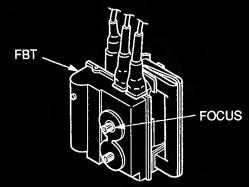
Screen-corner Convergence





3-3. FOCUS

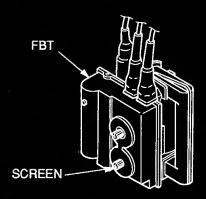
- 1. Receive the broadcast.
- 2. CONTRAST → Normal
- 3. Adjust FOCUS control so that the focus on the center of screen becomes to the best.



3-4. WHITE BALANCE

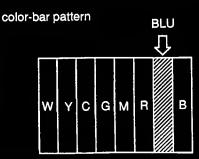
[Screen (G2) Voltage Adjustment]

- 1. Receive a dot signal with the pattern generator.
- 2. Adjust R. G. B cut-off controls so that respective cathode voltage against ground becomes 103V DC.
- 3. Observing the screen, adjust SCREEN control so that the background of the dot signal is bright dimly.



[White Balance]

- 1. Receive a color-bar pattern signal with the pattern generator. (Make black and white screen by chroma switch off.)
- 2. BRIGHTNESS50%
 - CONTRASTMinimum
 - CHROMA50%
 - DR1VE control Mechanical center
 - BKG control Mechanical center
- 3. Adjust RV118 (SUB BRT) on B board so that the blue stripe portion on the color-bar pattern signal is bright dimly.



- 4. Receive an entirely white signal from the pattern generator.
- 5. CONTRAST70% (90 degree clockwise from mechanical center.)
- 6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 3 Nits. (The condition the screen is bright dimly.)
- 7. Adjust white balance at cut-off using RV119 (G-C/O) and RV121 (B-C/O)
- 8. Change the all-white signal luminance level to 100 IREs.
- 9. Adjust white balance at high-light using RV120 (G-GAIN) and RV121 (B-GAIN).
- 10. Change the unit to blue ONLY mode.
- 11. Adjust white balance (at high-light) in blue ONLY mode using RV124*R-GAIN/BL) and RV125 (G-GAIN/BL).
- 12. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nits. Confirm that white balance at cut-off is satisfactory..

SECTION 4 SAFETY RELATED ADJUSTMENT

4-1. SAFETY RELATED ADJUSTMENTS

B+ MAX CONFIRMATION (■ RV651)

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on G board: (Power supply block)

1C601, 1C651, PH602, C655, R653, R655, R656, R657, RV651.

- 1. For US model, supply $130V_{-0}^{+0.5}$ V AC with variable autotransformer.
- 2. Receive a dot signal.
- 3. CONTRAST Minimum
 - BRIGHTNESS Minimum
- 4. Connect a digital multimeter to RY1601 pin-7 of D board.
- 5. Turn RV651 on the G board fully clockwise. Confirm that the voltage of RY1601 pin-7 is less than 41.9V DC.
- 6. If step 5 is not satisfied, readjust the RV651. After adjusting, fasten RV651 in place with epoxy.

B+ MAX IN DC POWER INPUT MODE, CONFIRMATION (► RV1603)

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on D board:

Q1601,Q1602,Q1603,D1601,D1602,D1603,D1604,D1605,C1601,C1602,R1601,R1602,R1603,R1604,R1605,R1606,R1607,R1608,R1629,R1628,R1630,RV1601,RV1603.

- 1. Supply DC $12V_{-0}^{+0.4}$ V from DC 12V 1N connector.
- 2. Receive a dot signal.
- 3. CONTRAST Minimum
 - BRIGHTNESS Minimum
- 4. Connect a digital multimeter to C1605 positive + side of D board.
- 5. Turn RV1601 on the D board fully clockwise. Confirm that the voltage of C1605 + pin is less than 41.9V DC.
- 6. If step 5 is not satisfied, readjust the RV1603. After adjusting, fasten RV1603 in place with epoxy.

HOLD-DOWN CIRCUIT CONFIRMATION (■ RV833) AND READJUSTMENTS

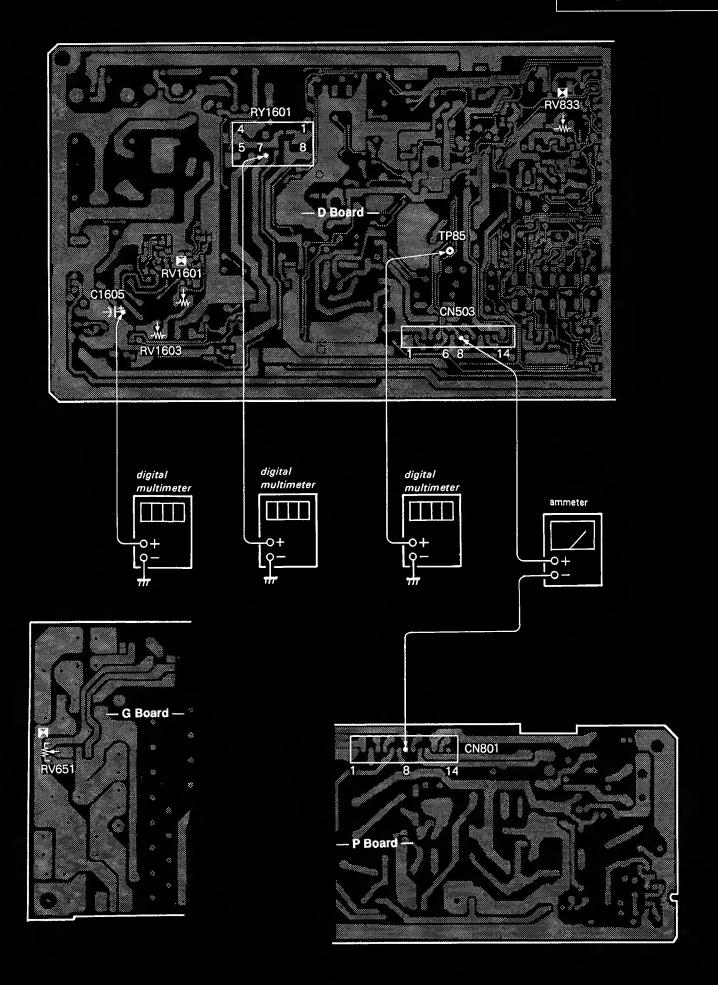
The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on D board:

IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C814, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863, NL801.

on P board:NL801,T802 (FBT)

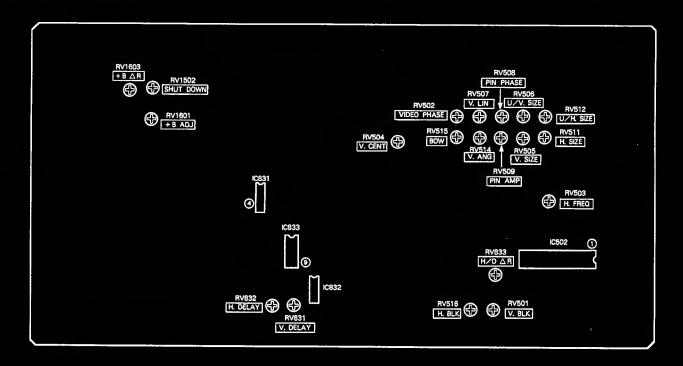
- 1. Receive an entire white signal.
- 2. CONTRAST Maximum
 - BRIGHTNESS Maximum
- 3. Connect a digital multimeter to the TP85 (CN503 pin-6).
- 4. Confirm the voltage is $14.1 \pm 3.0 \text{V DC}$.
- 5. Receive a dot signal.
- 6. Connect an ammeter between D board CN503 pin-® and P board CN801 pin-®.
- 7. Adjust BRIGHTNESS and CONTRAST so that the current is IABL = $160 \pm 30 \,\mu\text{A}$.
- 8. Apply an external DC voltage gradually to TP85. When the voltage becomes $18.5V \pm 0.1V$ DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 9. When external DC voltage at TP85 becomes $17.5V \pm 0.1V$ DC, confirm the HOLD-DOWN circuit doesn't operate.
- 10. Receive an entire white signal.
- 11. Adjust with BRIGHTNESS and CONTRAST controls so that the current is IABL = $520 \pm 30 \mu A$.
- 12. Apply DC voltage of 17.8V ± 0.1V to TP85. Confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 13. With the same set-up as steps 10 and 11, supply 16.8V ± 0.1V DC to TP85. Confirm that the HOLD-DOWN circuit doesn't operate.
- 14. When above specifications are not satisfied, readjust RV833. After adjusting, fasten RV833 in place with epoxy.



SECTION 5 CIRCUIT ADJUSTMENTS

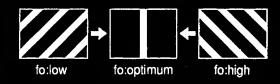
5-1. D BOARD ADJUSTMENTS

--- D BOARD (COMPONENT SIDE)---



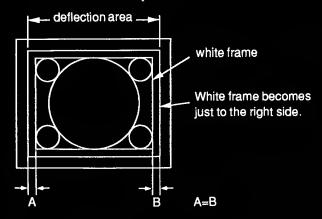
HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV503)

- 1. Receive a monoscope signal.
- 2. Connect pin-① of IC502 to ground with 100μF/16V electrolytic capacitor.
- 3. Adjust RV503 (H.FREQ) so that the screen streaming to stops.



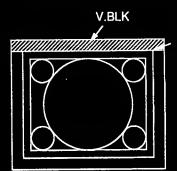
SCREENPHASE ADJUSTMENTS (RV502, RV512, RV516)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode.
- 3. CONTRAST Minimum
 - BRIGHTNESS Maximum.
- 4. Adjust RV512 (U/H. SIZE) so that the white frame of monoscope signal becomes visible.
- 5. Adjust RV516 (H.BLK) for minimum BLKG width so that all the deflection area becomes visible.
- 6. Adjust RV502 (VIDEO PHASE) so that the monoscope's white frames should have equal width.



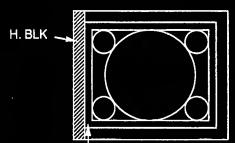
H.V BLK ADJUSTMENTS (RV501, RV516)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode.
- 3. CONTRAST Minimum
 - BRIGHTNESS Maximum.
- 4. V. BLK Adjustment (RV501)
- Adjust RV501(V. BLK) so that the upper side white frame of monoscope signal is not blanked.



Make not to blank the upper side white frame of monoscope signal.

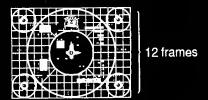
- 5. H. BLK Adjustment (RV516)
- (1) Adjust with RV516 (H. BLK) so that the left end white vertical line of the white frame of monoscope signal is not blanked as following figure.



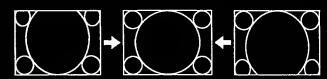
Make not to blank the left end white vertical line of the white frame of monoscope signal.

VERTICAL DEFLECTION PART ADJUSTMENTS (RV504, RV505, RV506, RV507)

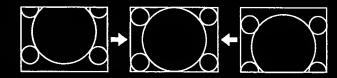
- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS50%
- 3. Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.



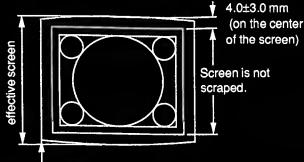
4. Adjust RV507 (V.LIN) the vertical linearity.



5. Adjust RV504 (V. CENT) the vertical position.



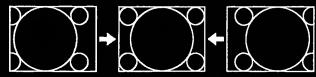
- 6. V. SIZE ADJUSTMENT (RV505)
- (1) Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 11.75 +0.2 frames.
- 7. V.SIZE IN UNDERSCAN MODE ADJUSTMENT (RV506)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust the Under V.SIZE with RV506 (U/V. SIZE) as follows.



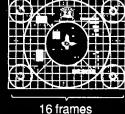
Screen is not wane on the four corners.

HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV508, RV509, RV511, RV514, RV515, RV801/P board)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS......50%
- 3. H. CENT Adjustment (RV801 on P board)
- (1) Adjust RV801 on P board (H. CENT) the horizontal position.



- 4. H. SIZE Adjustment (RV511)
- (1) Adjust RV511 (H. S1ZE) the horizontal size of 16 frames of monoscope signal.



PIN AMP. PIN PHASE, V. ANG, BOW ADJUSTMENTS (RV508 RV509, RV514, RV515)

Adjust RV514 (V. ANG) and RV515 (BOW) to correct vertical angular distortion and bow distortion. Adjust RV509 (PIN AMP) and RV508 (PIN PHASE) so that vertical lines become straight.

V. ANG (RV514)



BOW (RV515)



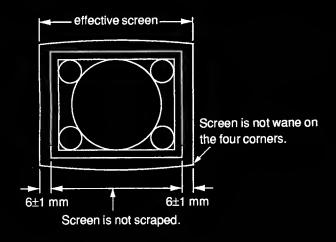
PIN AMP (RV509)



• PIN PHASE (RV508)

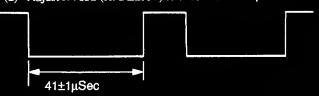


- 6. H. SIZE ADJUSTMENT (RV511)
- (1) Adjust RV511 (H. SIZE) so that the horizontal size becomes 16 ± 0.2 frames.
- 7. UNDERSCAN MODE H.SIZE ADJUSTMENT (RV512)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust RV512 (U/H. SIZE) the Under H. SIZE as shown in the figure.

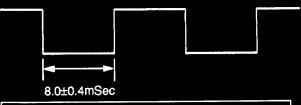


HV DELAY ADJUSTMENT (RV831, RV832)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS50%
- 3. Set H V DELAY switch to DELAY mode.
- 4. H. DELAY Adjustment (RV832)
- (1) Connect an oscilloscope to pin-4 of 1C831.
- (2) Adjust RV832 (H. DELAY) to becomes 41 ± 1 µsec.



- 5. V. DELAY Adjustment (RV831)
- (1) Connect an oscilloscope to pin-9 of 1C833.
- (2) Adjust RV831 to become 8.0 ± 0.4 msec as follows.



SHUT-DOWN VOLTAGE ADJUSTMENT (RV1602)

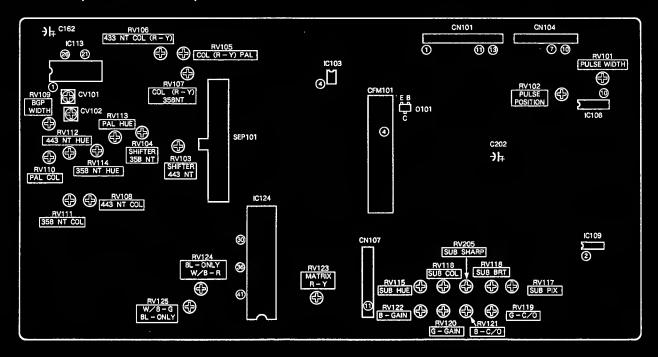
- 1. Fully rotate RV1602 in the direction that does not shut-down.
- 2. Supply a 9.4V $_{-0}^{+0.1}$ V voltage to the C1 602 side of L1602 on the D board.
- 3. Turn AC power switch ON.
- 4. Rotate D board RV1602 (SHT DOWN) slowly to the point that shuts-down the unit.

B+ VOLTAGE DURING DC OPERATE MODE, ADJUSTMENT (RV1601)

- 1. Supply DC12V±0.2V to DC 12V IN connector.
- 2. Receive a monoscope signal.
- 3. CONTRAST80%
 - BRIGHTNESS50%
- 4. Connect a digital voltmeter to C1605 + positive side on D board.
- 5. Adjust RV1601 on the D board for 40.0±0.1V DC.

B BOARD ADJUSTMENT

-B BOARD (COMPONENT SIDE)-

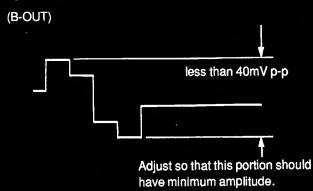


-B BOARD (CONDUCTOR SIDE)-

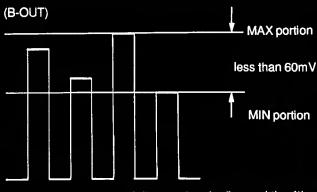


PRIMARY COLOR MATRIX ADJUSTMENT (RV115, RV116, RV123)

- Supply component color bar signal (75% drroma color bar) to the equipment so that Y signal is supplied to EXT SYNC and R-Y signal to R-Y connectors Operate the equipment in external sync mode.
- 2. Connect oscilloscope to IC124 pin-30 (B-OUT).
- 3. Adjust RV115 (SUB HUE) to obtain the Blue output as shown in figure.

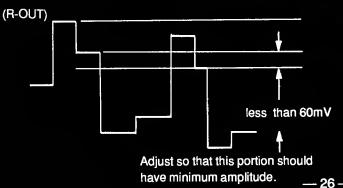


- 4. Supply component color bar signal (75% color bar) to the component input connector to feed R-Y and B-Y signals. Operate the equipment in internal SYNC mode.
- 5. Connect oscilloscope to IC124pin-③ (SUB-COL). Adjust RV116 (SUB-COL) so that waveform peaks should have the same level.



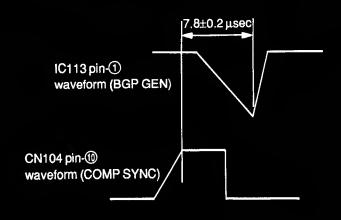
(Adjust so that the first and the 4th peaks should have the same level.)

- 6. Connect oscilloscope to IC124 pin- (R-OUT).
- 7. Adjust RV123 ((R-Y)-1N) so that waveform peaks should have the same level.



BURST GATE PULSE WIDTH ADJUSTMENT (RV109)

- 1. Receive color bar signal.
- Connect dual trace oscilloscope to CN104 connector pin (COMP-SYNC) and 1C113 (M51279) pin (BGP-WIDTH).
 Adjust RV109 (BGP-WIDTH) to obtain the relationship as shown in the figure.

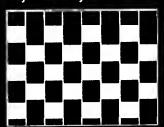


VXO ADJUSTMENT (CV101,CV102)

- 1. 3.58MHz VXO adjustment (CV101)
- (I) Receive NTSC color bar signal.
- (2) Connect +5V power line to IC113 pin-[®] (ID-FILT-REF) via a 4700Ω resistor.
- (3) Ground ICI09 pin-2 by connecting it to ground.
- (4) Ground C162 negative side by connecting it to ground.
- (5) Connect frequency counter to IC113 pin-②. Adjust CV101 (358FO) for 3579545±20Hz.

 (This adjustment can be alternatively done by observing screen as below.)

Adjust color synchronization by CV101 (358FO).

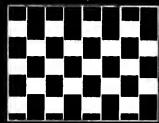


Adjust so that color stripes disappear and the hue change is stabilized extremely.

- 2. 4.43MHz VXO adjustment (CV102)
- (1) Receive PAL colour bar signal.
- (2) Connect +12V power line to IC109 pin-2.
- (3) Connect frequency counter to IC113 pin-②). Adjust CV102 (443FO) for 4433619±20Hz.

 (This adjustment can be alternatively done by observing screen as below.)

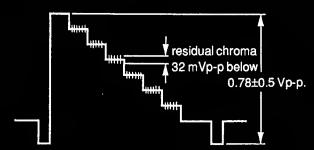
Adjust colour synchronization by CV102(443FO).



Adjust so that colour stripes disappear and the hue change is stabilized extremely.

NTSC COMB FILTER ADJUSTMENT (RV1,T1/CFM101 BOARD)

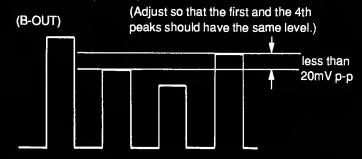
- 1. Receive NTSC 3.58 color bar signal.
- 2. Connect an oscilloscope to C202 negative side.
- 3. Confirm the Y OUT is 0.78±0.5 Vp p.
- 4. Confirm the residual chroma is 32 mVp-p below. If it is above 35 mVpp, adjust with RV1 and T1 on CFM201 board while tracking.



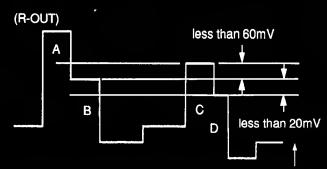
NTSC COLOR DEMODULATION ADJUSTMENT (RV114,RV111,RV104,RV107)

- 1. NTSC 3.58MHz HUE adjustment (RV114)
- Supply NTSC color bar signal including burstand R-Y component.
 (For example, Tektronix 1410SG output color bar signal with B-Y component removed.)
- (2) Connect an oscilloscope to Q128 emitter (B-Y OUT).
- (3) Adjust RV114 (358NT HUE) so that all the waveform peaks should have equal amplitude (look flat) except burst. (Level difference should be less than 10mV p-p.)

- 2. NTSC 3.58MHz COLOR adjustment (RV111)
- (1) Receive NTSC 3.58 color bar signal.
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- (3) Adjust RV111(358NT-COL) so that waveform peaks should have the same level (most flat).



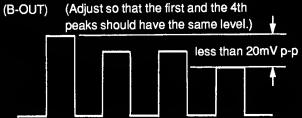
- 3. NTSC 3.58MHz COLOR (R-Y) adjustment (RV104, RV107)
- (1) Receive the color bar signal.
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV104 (358NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin- (R-OUT). Adjust RV107 (358NT-COL (R-Y)) so that the level difference should be minimum.



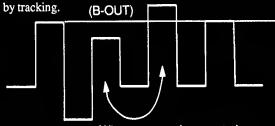
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

NTSC 4.43MHZ COLOR DEMODULATION ADJUSTMENT (RV108,RV112,RV103,RV106)

- 1. NTSC 4.43MHz COLOR adjustment (RV108,RV112)
- (1) Receive NTSC 4.43 color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-3 (B-OUT).
- (3) Adjust RV108 (443NT-COL) so that waveform peaks should have the same level (most flat).

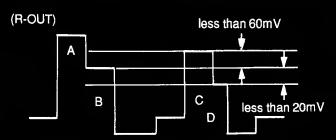


(4) When cyan and magenta have level difference, adjust RV112 (443NT-HUE) and RV108 (443NT-COL) alternatively to remove,



When cyan and magenta have level difference, adjust RV112 and RV108 alternatively to remove.

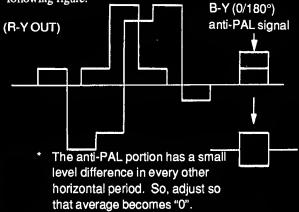
- 2. NTSC 4.43MHz COLOR (R-Y) adjustment (RV103, RV106)
- (1) Receive the NTSC 4.43 color bar signal (75%, chroma color bar).
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV103(443NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to 1C124 pin-49 (R-OUT). Adjust RV106 (443NT-COL (R-Y)) so that the level difference should be minimum.



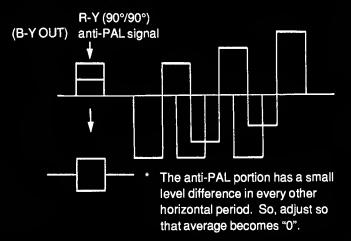
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

PAL COLOR DEMODULATION ADJUSTMENT (RV113,RV2/SEP101, RV110,RV105,RV205)

- PAL PHASE Adjustment (RV113,RV2/SEP101)
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q127 (R-Y OUT).
- (3) Adjust RV113 (PAL-PHASE) so that B-Y (0/180°) anti-PAL portion (in the R-Y demodulated output) becomes "0" (flat) as following figure.

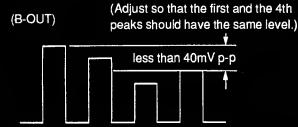


- (4) Connect an oscilloscope to emitter of Q128 (B-Y OUT).
- (5) Adjust RV2 inside SEP101 so that R-Y (90°/90°) anti-PAL portion (in B-Y demodulated output) becomes "0" (flat) as following figure.

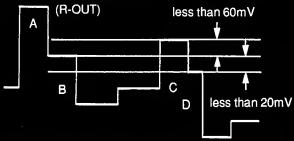


For the adjustments of (3) and (5), it is also possible to set the color level to MAX with the chroma adjusting knob of the unit and erase the color of the anti-pal signal section.

- 2. PAL COLOR ADJUSTMENT (RV110)
- (1) Receive PAL color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-3 (B-OUT).
- (3) Adjust RV110 (PAL-COL) so that waveform peaks should have the same level (most flat).



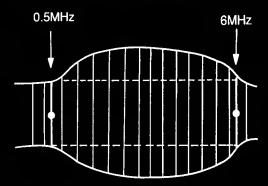
- 3. PAL-COLOR-(R-Y) ADJUSTMENT (RV105)
- (1) Connect an oscilloscope to IC124 pin-4 (R-OUT).
- (2) Adjust RV105 (PAL-COL-(R-Y)) so that waveform peaks should have the same level (most flat).



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

SUB-SHARP ADJUSTMENT (RV205)

- (1) Receive a sweep signal (or multi-burst).
- * Bandwidth should be more than 10MHz (flat).
 - · Composite sync should be included.
 - · Turn burst off.
- (2) Connect an oscilloscope to IC124 pin-36 (G-OUT).
- (3) Adjust RV205 (SUB-SHARP) as shown.



Example of sweep signal output waveform

[specification] 6MHz/0.5MHz=0±0.5dB

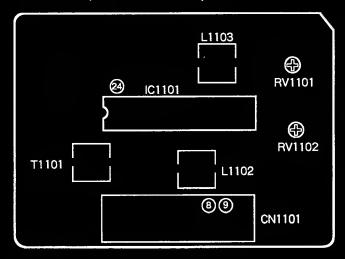
CHROMA H PULSE POSITION ADJUSTMENT (RV101,RV102)

- (1) Receive the SECAM color bar signal.
 (The left edge of the screen should not be colored.)
- (2) Set to the under-scan mode.
- (3) Adjust RV101 (PLUSE-WIDTH) until the point immediately before the color on the left edge of the screen disappears.
- (4) Release the under-scan mode.
- (5) Set the HV DELAY mode.
- (6) Adjust RV102 (PULSE-POSI) untill the point immediately before the rising color of the image after back porch diappears.

Note: If image phase adjustment or HV DELAY amount adjustment during HV DELAY is performed after completing the adjustment in this section, re-adjustments will be required. Therefore, performed this adjustment after the two mentioned have been performed.

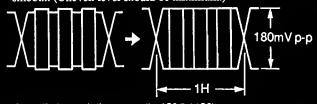
S BOARD ADJUSTMENTS

-S BOARD (COMPONENT SIDE)-



SECAM(T1101,L1102,L1103)

- 1. Receive SECAM color-bar.
- 2. Bell Filter Adjustment (T1101)
- (1) Connect an oscilloscope to IC1101 pin-2.
- (2) Adjust T1101 (Bell Filter) so that the chroma waveform becomes smooth. (Uneven level should be minimum.)



- 3. Color Balance Adjustment (L1102,L1103)
- (1) Connect an oscilloscope to pin-9 (R-Y) of CN1101 connector.
- (2) Adjust L1102 (R-Y) so that the non-colored portion level becomes flat.



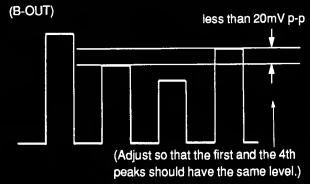
- (3) Connect an oscilloscope to pin-8 (B-Y) of CN1101 connector.
- (4) Adjust L1103 (B-Y) so that the non-colored portion level becomes flat.



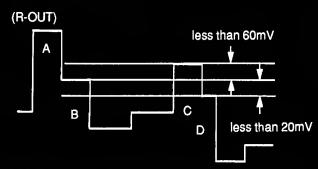
(5) When adjusting the color level of the unit to MAX or MIN using the chroma adjusting knob, check that the white balance of the colorless section does not change.

DEMODULATION LEVEL ADJUSTMENT (RV1101, RV1102)

- 1. Receive SECAM color-bar.
- 2. Connect an oscilloscope to IC124 pin-3 (B-OUT).
- 3. Adjust S board RV1101 (SEC-COL) so that waveform peaks should have the same level (most flat).



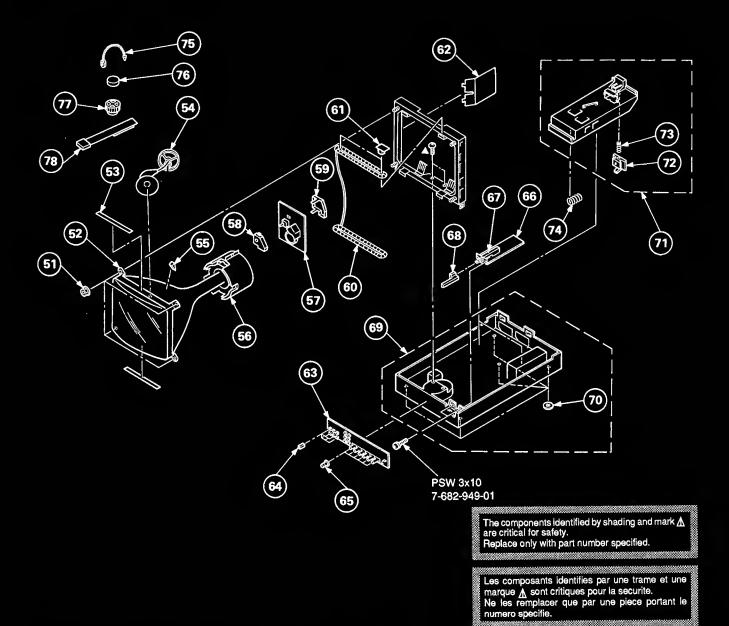
- 4. Connect an oscilloscope to IC124 pin- (R-OUT).
- 5. Adjust S board RV1102 (SEC-COL (R-Y)) so that the level difference should be minimum.



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

7-2. PICTURE TUBE

▲ : BVTP3x12 7-685-648-79





SECTION 8 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark $oldsymbol{\Lambda}$ are critical

for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque Λ sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- RESISTORS
 All resistors are in ohms
 F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

MF: μF, PF: μμF

MMH: mH, UH: μH

The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally

	PART NO.			REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	A-1135-700-A	B BOARD, COMPLETE			C142	1-163-031-11	CERAMIC CHIP 0.01MF	r tv	50V
	3-710-578-01	COVER, VOLUME, 6 MOLD			C144 C144 C145	1-163-121-00 1-163-101-00 1-163-131-00 1-126-157-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 150PF CERAMIC CHIP 22PF CERAMIC CHIP 390PF ELECT 10MF	5% 5% 5% 20%	50V 50V 50V 16V
	<bani< td=""><td>PASS FILTER></td><td></td><td></td><td>C147</td><td>1-164-232-11</td><td>CERAMIC CHIP O.OIMF</td><td>10%</td><td>50V</td></bani<>	PASS FILTER>			C147	1-164-232-11	CERAMIC CHIP O.OIMF	10%	50 V
BPF 101 BPF 102	1-236-363-11 1-236-364-11	B BOARD, COMPLETE **********************************			C148 C149 C150 C151	1-126-160-11	ELECT 1MF CERAMIC CHIP 0.012MF ELECT 47MF CERAMIC CHIP 390PF	20% 10% 20% 5%	50V 50V 16V 50V
	<cap1< td=""><td>ACITOR></td><td></td><td></td><td>C152</td><td></td><td></td><td></td><td>50V</td></cap1<>	ACITOR>			C152				50 V
C101 C102	I-124-589-11 1-163-031-11	ELECT 47MF CERANIC CHIP 0.01MF ELECT 10MF	20%	16V 50V	: 1154	1-163-125-00 1-163-031-11	CERAMIC CHIP 22PF CERAMIC CHIP 220PF CERAMIC CHIP 0.01MF	5% 5%	50 V 50 V
C103 C104 C105	1-163-031-11	ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20%	16V 50V 50V	C154 C155 C156	1-163-133-00 1-164-299-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.22MF	10%	50 V 25 V
C106	1-124-477-11	ELECT 47MF CERAMIC CHIP 0.01MF	20%	16V	C157	1-163-229-11 1-124-477-11	CERAMIC CHIP 12PF ELECT 47MF CERAMIC CHIP 12PF	5% 20%	50V 16V
C107 C108 C109	1~124-477-11	ELECT 47MF ELECT 47MF	20% 20% 20%	50V 16V 16V 16V	C158 C159 C160 C161	1-163-229-11 1-163-229-11 1-124-902-00	CERAMIC CHIP 12PF CERAMIC CHIP 12PF ELECT 0.47MF	5% 20% 5% 20%	50V 50V 50V
C110	1-124-120-11	ELECT 220MF	20%	16V	C162	1-124-902-00	ELECT 1MF	20%	507
C111 C112	1-163-031-11	CERAMIC CHIP 0.01MF		50V 50V	C163	1-163-809-11 1-163-809-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF	10% 10%	25 V 25 V 50 V
Č113 C114	1-124-477-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 47MF	20%	50V 50V 16V	C164 C165 C166	1-163-009-11 1-163-031-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF	10%	50v 50v
C115	1-163-031-11	CERAMIC CHIP 0.01MF		50 V	C167 C168		ELECT 47MF CERAMIC CHIP 0.01MF	20%	1 6V
C116 C117	1-124-477-11 1-124-477-11	ELECT 47MF	20% 20% 20%	16V 16V	C169	1-163-031-11 1-163-243-11 1-163-129-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 47PF CERAMIC CHIP 330PF	5%	50V 50V
C119	1-163-031-11	CERAMIC CHIP O.DIME		16V 16V 16V 50V 16V	C170 C171	1-163-129-00 1-163-243-11	CERAMIC CHIP 330PF CERAMIC CHIP 47PF	5% 5% 5%	50V 50V
C120		ELECT 47MF	20%		C172	1-163-129-00	CERAMIC CHIP 330PF	5%	50 V
C121 C122 C123	1-124-477-I1 1-124-477-11 1-163-031-11	ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF	20% 20%	16V 16V 50V	C173 C174 C175	1-124-589-11 1-124-477-11 1-108-792-11	ELECT 47MF ELECT 47MF MYLAR 0.001MF	20% 20% 5%	50V 16V 16V 50V
C124 C125	1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 47MF	20%	50 V 50 V 16 V	C176	1-163-031-11	CERAMIC CHIP O.01MF) /s	50 V
				50 V	C177 C178	1-163-031-11 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.01MF		50V 50V
C127 C128	1-124-477-11 1-124-477-11	ELECT 47MF	20% 20%	16V 16V	C179 C180	1-126-160-11 1-163-031-11	ELECT 1MF CERAMIC CHIP O.DIMF	20%	50V 50V
C129	1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		50V 50V	C181	1-126-154-11	ELECT 47MF	20%	6.38
		CERAMIC CHIP O.D1MF ELECT 47MF		50V	C182 C183 C184	1-126-163-11 1-164 - 232-11	ELECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20% 10%	16V 50V 50V
C133	1-124-589-11	ELECT 47MF	20% 20% 5% 5%	50V 16V 16V	(185	1-163-031-11	CERAMIC CHIP U. DIMF		50 V
C134 C135	1-163-275-11 1-163-113-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 68PF	5% 5%	50 V 50 V	C186	1-163-099-00	CERAMIC CHIP 18PF	5%	50V
C137	1-163-115-00	CERAMIC CHIP 82PF	5% 20%	50V 16V	C187 C188	1-163-031-11 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		50V 50V
C138 C139 C140	1-163-031-11	ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.001MF		50V 50V	C189 C190 C191	1-163-035-00 1-163-121-00 1-163-031-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 150PF CERAMIC CHIP 0.01MF	5%	50V 50V 50V
C140 C141	1-163-088-91	CERAMIC CHIP 0.001MF	5% 5%	50 V	C191	1-100-001-11	CERAMIC CHIP U.UIMP		704



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C192 C193 C1 9 4 C195 C196	1-163-031-11 I-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	CERAMIC CHIP ELECT ELECT ELECT ELECT	0.01MF 47MF 47MF 47MF 47MF	20% 20% 20% 20%	50V 16V 16V 16V 16V	C258 C259 C260 C261 C262	1-163-129-00 1-163-031-11 1-124-465-00 1-137-193-11 1-124-465-00	CERAMIC CHIP ELECT FILM		5% 20% 5% 20%	50V 50V 50V 50V 50V
C197 C198 C199 C202	1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	ELECT ELECT ELECT ELECT	47MF 47MF 47MF 47MF	20% 20% 20% 20%	16V 16V 16V 16V	C264 C265 C266 C267	1-163-123-00 1-163-129-00 1-126-320-11 1-126-320-11	CERAMIC CHIP	180PF	5% 5% 20% 20%	50V 50V 16V 16V
C203 C204 C205 C206	1-124-589-11 1-124-589-11 1-163-101-00 1-164-298-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP	0.15MF	20% 20% 5% 10% 10%	16V 16V 50V 25V 25V	C268 C269	1-124-477-11 1-164-004-11 1-163-809-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 0.1MF 0.1MF	20% 10% 10%	16V 25V 25V
C207 C208 C209 C210	1-164-298-11 1-163-101-00 1-164-004-11 1-124-589-11 1-124-589-11	CERAMIC CHIP CERAMIC CHIP ELECT	22PF 0.1MF 47MF	5% 10% 20%	50V 25V 16V 16V	C271 C272 C273 C274	1-163-129-00 1-163-129-00 1-124-477-11 1-163-119-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	330PF 330PF 47MF	5% 5% 20%	25V 50V 50V 16V
C211 C212 C213 C214	1-124-589-11 1-124-589-11 1-126-157-11	ELECT ELECT ELECT	47MF 47MF 47MF 10MF	20% 20% 20% 20%	16V 16V 16V	C275 C277 C278 C279 C280	1-163-119-00 1-163-097-00 1-163-809-11 1-126-157-11 1-163-117-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	15PF 0.047MF 10MF	5% 5% 10% 20% 5%	50V 50V 25V 16V 50V
C215 C216 C217 C218	1-126-157-11 1-126-157-11 1-163-031-11 1-164-298-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP	0.15MF	20% 20% 10%	16V 16V 50V 25V	C281 C282 C283 C299 C300	1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF 0.01MF		50V 50V 50V 50V
C219 C220 C221 C222	1-164-298-11 1-163-009-11 1-163-031-11 1-124-903-11 1-163-093-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.001MF 0.01MF 1MF 10PF		25V 50V 50V 50V 50V	C301 C302	1-126-157-11 1-163-809-11 1-124-589-11 1-126-157-11	CERAMIC CHIP ELECT ELECT	47MF 10MF	20% 10% 20% 20%	16V 25V 16V 16V
C223 C225 C226 C227 C228	1-163-031-11 1-124-477-11 1-163-031-11 1-163-038-00 1-163-986-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF O.01MF O.1MF	20%	50V 16V 50V 25V 25V	C303 C304 C305 C306 C307	1-163-125-00 1-124-257-00 1-163-115-00 1-163-145-00	ELECT	2.2MF 82PF	5% 20% 5%	50V 50V 50V 50V
C229 C230 C231	1-163-031-11 1-163-038-00 1-163-986-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF 0.027MF	10%	50 V 25 V 25 V	C308 C309 C310	1-164-004-11 1-164-004-11 1-164-004-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF 0.1MF	10% 10% 10%	25V 25V 25V
C232 C233 C234 C235	1-163-031-11 1-163-031-11 1-163-038-00 1-163-986-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF 0.027MF	10%	50V 50V 25V 25V	C312 C313 C314 C315 C316	1-163-031-11 1-163-115-00 1-126-157-11 1-164-299-11 1-126-157-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	82PF 10MF	5% 20% 10% 20%	50V 50V 16V 25V 16V
C236 C237 C238 C239	1-163-031-11 1-163-031-11 1-164-299-11 1-163-809-11		0.01MF 0.22MF	10% 10%	50 V 50 V 25 V 25 V	C317 C318 C319 C320	1-163-031-11 1-163-095-00 1-163-095-00 1-163-095-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	12PF 12PF 12PF	5% 5% 5%	50V 50V 50V 50V
C240 C241 C242 C243	1-163-809-11 1-163-809-11 1-163-113-00 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 0.047MF 68PF	10% 10% 10% 5%	25V 25V 25V 50V 50V	C321 C322 C324 C340	1-163-121-00 1-163-121-00 1-163-121-00 1-163-688-91	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	150PF 150PF	5% 5% 5%	50V 50V 50V 50V
C244 C245 C246 C247	1-163-103-00 1-163-105-00 1-163-809-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	33PF 0.047MF 0.047MF	5% 5% 10% 10% 10%	50V 50V 25V 25V 25V	C344 C345 C346 C347	1-163-092-00 1-163-109-00 1-163-109-00 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	9PF 47PF 47PF	0.25PF 5%	50V 50V 50V 50V
C248 C249 C250 C251	1-163-809-11 1-126-101-11 1-163-017-00 1-110-364-11	ELECT CERAMIC CHIP MYLAR	IOOMF O.0047MF O.1MF	20% 10% 10%	16V 50V 200V	C1293 C1294 C1295	1-163-119-00 1-163-119-00 1-163-119-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	120PF 120PF 120PF	5% 5% 5%	50V 50V 50V
C252 C253 C254 C255	1-123-935-00 1-124-477-11 1-163-031-11 1-124-477-11	ELECT ELECT CERAMIC CHIP ELECT	33MF 47MF 0.01MF 47MF	20% 20% 20%	160V 16V 50V 16V	C1296 C1297 C1298 C1299 C1300	1-163-115-00 1-163-103-00 1-163-113-00 1-163-093-00 1-126-160-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	27PF 68PF	5% 5% 5% 20%	50V 50V 50V 50V
C256 C257	1-163-129-00 1-163-129-00	CERAMIC CHIP CERAMIC CHIP	330PF	5%° 5%°	50V 50V	C1301	1-126-160-11 1-126-160-11	ELECT ELECT	1MF 1MF	20% 20%	50V 50V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1303	1-126-160-11	ELECT	1MF	20%		D135	8-719-404-46	DIODE MA110	
<pre><filter block=""> CFM101 1-464-880-11 FILTER BLOCK, COM (CFB-2)</filter></pre>						D136	8-710-101-16	DIODE MAILO DIODE MAILO	
					D136 D137 D138 D139 D142	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO		
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td>D143 D144</td><td>8-719-404-46 8-719-404-46</td><td>DIODE MA110 DIODE MA110</td><td></td></con<>	NECTOR>				D143 D144	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
CN101 CN102 CN103	1-506-480-11 *1-564-506-11 *1-565-503-11	PIN, CONNECT PLUG, CONNEC CONNECTOR B	OR 15P TOR 3P NARD TO ROAR	N 12P		D145 D146	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110	
CN104 CN105	<pre></pre>	PIN, CONNECT PLUG, CONNEC	OR 12P TOR 6P	121		D148			
CN106 CN107	1-506-473-11 1-506-478-11	PIN, CONNECT PIN, CONNECT	OR 8P OR 13P			D148 D149 D150 D151 D152	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO	
CN108	*1-564-506-11	PLUG, CONNEC	TOR 3P				8-719-404-46 8-719-977-20		
CTRIOI		P MODULE>				D153 D154 D155 D156 D157	8-719-404-46 8-719-404-46	DIODE DTZ8.2B DIODE MA110 DIODE MA110 DIODE MA110 DIODE 1SS83	
CTR102	1-236-366-11 1-236-365-11	MODULE, TRAP				i			
		MMER>				D158 D159 D160	8-719-901-83 8-719-901-83 8-719-404-46	DIODE 1SS83 DIODE 1SS83 DIODE MAILO	
CV101 CV102	1-141-245-00 1-141-245-00	CAP, TRIMMER CAP, TRIMMER				D161 D162	8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO	
	<010	DE>				D170 D171	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
D101 D102	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110				D172 D285	8-719-404-46 8-719-404-46	DIODE MAI10 DIODE MA110	
D103 D104 D10 5	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO				D289 D341 D342 D343	8-719-404-46 8-719-404-46 8-719-104-34	DIODE MA110 DIODE MA110	
D106 D107	8-719-404-46 8-719-404-46					D343 D344	8-719-104-34 8-719-800-76 8-719-105-99	DIODE 1S2836 DIODE 1SS226 DIODE RD6.2M-B1	
D108 D109	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO				D345 D346 D347	8-719-901-83 8-719-901-83	DIODE 1SS83 DIODE 1SS83	
D110 D111						D347 D348 D349	8-719-901-83 8-719-901-83 8-719-901-83 8-719-800-76 8-719-800-76	DIODE 1SS83 DIODE 1SS226	
D112 D113 D114	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO				D350 D393	8-719-800-76 8-719-404-46		
D115	8-719-404-46	DIODE MAIIO				D393	8-719-404-46	DIODE MA110	
D116 D117 D118	8-719-404-46 8-719-404-46 8-719-4 04- 46	DIODE MAILO DIODE MAILO DIODE MAILO				DI 101		AY LINE> DELAY LINE, Y	
D119 D120	8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO				DL101 DL102	1-415-633-11	DELAY LINE, Y	
D121 D122	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110					<1C>		
D123 D125	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110				IC101 IC102 IC103	8-759-048-09 8-759-501-21 8-759-501-21	IC MM1148XF IC MM1149XF IC MM1149XF	
D126 D127	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	,			IC103 IC104 IC105	8-759-501-21 8-759-501-21 8-759-501-21 8-759-048-09	IC MM1149XF IC MM1148XF	
D128 D129 D130	8-719-400-18 8-719-404-46 8-719-800-76	DIODE MA152WI DIODE MA110 DIODE 1SS226					8-759-009-51 8-759-509-57 8-759-509-17		
D131 D132	8-719-800-76 8-719-800-76	DIODE 1SS226 DIODE 1SS226				IC108 IC109 IC110	8-759-509-17 8-759-509-37 8-759-509-17	IC XRU4053BF IC XRU4070BF IC XRU4053BF	
D133 D134	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110					8-759-509-17 8-759-924-12		
						ICIIZ	6-139-924-12	IC EM/803C1	



RĒF.NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION
IC113 IC114 IC115 IC116 IC117	8-759-631-08 8-759-509-13 8-759-509-13 8-759-509-05 8-759-711-32	IC M51279FP IC XRU4052BF IC XRU4052BF IC XRU4066BF IC NJM2245M			Q123 Q124 Q125 Q126 Q127	8-729-216-22 8-729-920-74 8-729-901-01	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G
IC118 IC119 IC120 IC121 IC122	8-759-711-32 8-759-711-32 8-759-509-05 8-759-509-17 8-759-998-98	IC XRU4U53BF IC LM358D			Q128 Q129 Q130 Q131 Q131 Q132	8-729-216-22 8-729-901-01 8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G
10125 10126 10127	8-759-998-98	IC XRU4U66BF IC XRU4O53BF IC LM358D			Q133 Q134 Q135 Q136	8-729-920-74 8-729-901-01 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR IMX1 TRANSISTOR IMX1
10128 10129	8-759-998-98 8-759-998-98 <coi< td=""><td></td><td></td><td></td><td>Q138 Q139 Q140</td><td></td><td>TRANSISTOR 1MX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR</td></coi<>				Q138 Q139 Q140		TRANSISTOR 1MX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR
L101			1000		Q142	8-729-920-74	TRANSISTOR 2SC2412K-QR
L102 L103 L104 L105	1-410-090-41 1-412-002-31 1-412-002-31 1-412-002-31	INDUCTOR INDUCTOR INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	18MMH 4.7VII 4.7VH 4.7VH		Q143 Q144 Q145 Q146 Q147	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2551-0 TRANSISTOR 2SC2551-0
L106 L107 L108 L109 L110	1-41U-47U-11 1-410-470-11 1-408-418-00 1-408-418-00 1-408-418-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	10UH 18MMH 4.7UH 4.7UH 4.7UH 10UH 10UH 56UH 56UH		Q148 Q149 Q150 Q151 Q152	8-729-216-22 8-729-200-17 8-729-920-74 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0 TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0
L112 L113 L114 L115 L116	1-4U8-419-U0 1-410-947-31 1-410-947-31 1-41U-947-31 1-412-U11-31	INDUCTOR INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	68UH 33UH 33UH 33UH 27UH			8-729-920-74 8-729-216-22 8-729-200-17 8-729-326-11	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0 TRANSISTOR 2SC2611 TRANSISTOR 2SC2611
L117 L118 L250 . L251 L252	1-412-011-31 1-410-997-31 1-410-999-11	INDUCTOR CHIP INDUCTOR CHIP	27UH 27UH 2.2UH 3.3UH 47UH		Q159 Q160 Q161 Q162 Q163	8-729-326-11 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2611 TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR
L300	1-410-482-31	INDUCTOR	100UH		i		TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G
Q101	<tra 8-729-920-74 8-729-920-74</tra 	NSISTOR> TRANSISTOR 2SC	2412K-QR		Q165 Q166 Q167 Q168	8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G
4103 4104 4105	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC: TRANSISTOR 2SC: TRANSISTOR 2SC: TRANSISTOR 2SC:	2412K-QR 2412K-QR 2412K-QR 2412K-QR		Q170 Q171 Q172 Q173	8-729-920-74 8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G
41U9	8-729-92U-74 8-729-920-74 8-729-216-22 8-729-901-U1 8-729-92U-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA TRANSISTOR DTC TRANSISTOR 2SC	2412K-QR 162-G 44EK		Q174 Q175 Q176 Q177	8-729-216-22 8-729-216-22 8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR
0113 0114	8-729-920-74 8-729-216-22	TRANSISTOR 2SC2 TRANSISTOR 2SA1	2412K-QR		0177 0178 0179	8-729-920-74 8-729-901-01	TRANSISTOR ŽSCŽ4ÎŽK-QR TRANSISTOR DTC144EK
Q115 Q116 Q117	8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SA1	2412K-QR 2412K-QR 1162-G		Q190 Q191 Q192 Q193 Q194	8-729-216-22 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR
Q120 Q121	8-729-92U-74 8-729-216-22 8-729-216-22 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR 2SA1 TRANSISTOR 2SC2 TRANSISTOR 2SA1	l162-G l162-G 2412K-QR		Q195 0196	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
Q198 Q199 Q200 Q201 Q202	8-729-901-06	TRANSISTOR 2S TRANSISTOR 2S. TRANSISTOR DT TRANSISTOR 2S. TRANSISTOR 2S.	A144EK A1162-(R141 R142 R143 R145 R146	1-216-063-00 1-216-073-00 1-216-085-00 1-216-065-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 10K 33K 4.7K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q203 Q204 Q205 Q206 Q207	8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-901-01	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR DT	A1162-(A1162-(A1162-(R147 R148 R155 R157	1-216-089-00 1-216-671-11 1-216-655-11 1-216-679-11 1-216-677-11	METAL GLAZE METAL CHIP METAL CHIP	47K 6.8K 1.5K 15K 12K		1/10W 1/10W 1/10W 1/10W	
Q208 Q209 Q210 Q211 Q212	8-729-255-12 8-729-255-12 8-729-255-12 8-729-109-44	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2551-(C2551-(C2551-(K94-X4	G O O			R160 R161 R163 R164 R165	1-216-065-00 1-216-089-00 1-216-073-00 1-216-677-11 1-216-107-00		4.7K 47K 10K 12K 270K	5% 5% 5% 0.50% 5%	1/10W 1/10W 1/10W	
Q299	8-729-920-74	TRANSISTOR 2S	C2412K	-QR			R166 R167	1-216-681-11	METAL CHIP	18K 220	0.50% 0.50%	1/10W 1/10W	
10105		ISTOR>	•	ΕŴ	1 /106		R168 R169	1-216-635-11 1-216-103-00 1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	180K 220 47K	5% 5% 5%	1/10W 1/10W 1/10W	
JR105 JR110 JR118 JR133 JR138	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R170 R171 R172 R173 R174	1-216-053-00 1-216-043-00 1-216-093-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 560 68K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
JR178 R101 R102 R103 R104	1-216-295-00 1-216-089-00 1-216-025-00 1-216-091-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 47K 100 56K 3.3K	5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W		R175 R176 R177 R178	1-216-057-00 1-216-065-00 1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 2.2K 4.7K 10K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R105	1-216-025-00	METAL GLAZE	100		1/10W		R179 R180	1-216-081-00 1-216-679-11	METAL GLAZE METAL CHIP	47K 22K 15K	5% 0.50%	1/10W 1/10W	
R106 R107 R108 R109	1-216-065-00 1-216-025-00 1-216-113-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 100 470K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R181 R182 R183 R184	1-216-071-00 1-216-683-11 1-216-691-11 1-216-699-11	METAL GLAZE METAL CHIP METAL CHIP METAL CHIP	8.2K 22K 47K 100K	0.50%	1/10W 1/10W	
R110 R111 R112 R113 R114	1-216-049-00 1-216-063-00 1-216-049-00 1-249-401-11 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	1K 3.9K 1K 47 680	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W	F	R185 R186 R187 R188 R189	1-216-073-00 1-216-113-00 1-216-073-00 1-216-113-00 1-216-103-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 470K 10K 470K 180K	5% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R115 R117 R118 R119	1-216-073-00 1-216-025-00 1-216-647-11	METAL GLAZE METAL CHIP	100 680	5% 5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W		R190 R191 R192 R193	1-216-107-00 1-216-097-00 1-216-103-00	METAL GLAZE	270K 100K 180K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R120 R121	1-216-647-11 1-216-025-00	METAL CHIP	680 100		1/10W 1/10W 1/10W		R193 R194 R195	1-216-105-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	220K 47K 470K	5% 5% 5%	1/10W 1/10W 1/10W	
R122 R123 R124 R125	1-216-083-00 1-216-073-00 1-216-073-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 27K 10K 10K 27K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R196 R197 R198 R199	1-216-073-00 1-216-671-11 1-216-049-00 1-216-065-00	METAL CHIP METAL GLAZE	10K 6.8K 1K 4.7K	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R126 R127 R128 R129 R130	1-216-093-00 1-216-037-00 1-216-083-00 1-216-067-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 330 27K 5.6K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R200 R201 R202 R203	1-216-065-00 1-216-043-00 1-216-033-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 560 220 680 10K	5% 5%%%% 5%%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R131	1-216-089-00 1-216-057-0 0	METAL GLAZE METAL GLAZE	47K 2.2K	5% 5%	1/10W 1/10W		R204 R205	1-216-073-00 1-216-073-00	METAL GLAZE	10K		1/10W	
R132 R133 R134 R135	1-216-079-00 1-216-645-11 1-216-645-11	METAL GLAZE METAL CHIP METAL CHIP	18K 560 560	5% 0.50% 0.50%	1/10W 1/10W 1/10W		R206 R207 R208 R209	1-216-043-00 1-216-045-00 1-216-671-11 1-216-043-00	METAL GLAZE METAL CHIP METAL GLAZE	560 680 6.8K 560 220	5% 5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R136 R137 R138 R139 R140	1-216-091-00 1-216-045-00 1-216-657-11 1-216-079-00 1-216-653-11	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE METAL CHIP	56K 680 1.8K 18K 1.2K	5% 5% 0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		R210 R211 R212 R213	1-216-033-00 1-216-099-00 1-216-065-00 1-216-043-00	METAL GLAZE METAL GLAZE	120K 4.7K 560	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R214 R215 R216 R217 R218	1-216-043-00 1-216-125-00 1-216-043-00 1-216-033-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 1.5M 560 220 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R280 R281 R282 R283	1-216-061-00 1-216-061-00 1-216-037-00 1-216-049-00		3.3K 3.3K 330 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R219 R220 R221 R222 R223	1-216-043-00 1-216-043-00 1-216-035-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 560 270 220 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R283 R284 R285 R286 R287 R288 R288	1-216-057-00 1-216-037-00 1-216-061-00 1-216-061-00 1-216-037-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 330 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R224 R225 R226 R227 R228	1-216-073-00 1-216-095-00 1-216-073-00 1-216-035-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R289 R290 R291 R292 R293 R295	1-216-057-00 1-216-037-00 1-216-061-00 1-216-061-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R229 R230 R231 R232 R233	1-216-113-00 1-216-081-00 1-216-113-00 1-216-105-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 22K 470K 220K 10K		1/10W 1/10W 1/10W 1/10W 1/10W		R296 R297 R298 R300	1-216-659-11 1-216-659-11 1-216-065-00 1-216-065-00		2.2K 2.2K 4.7K 4.7K	0.50% 0.50% 5% 5%	1/10W	
R234 R235 R236 R237 R238	1-216-077-00 1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R301 R302 R303 R304 R305	1-216-065-00 1-216-113-00 1-216-065-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 470K 4.7K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R239 R240 R241 R242 R243	1-216-065-00 1-216-033-00 1-216-073-00 1-216-051-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 10K 1.2K 470K		1/10W 1/10W 1/10W 1/10W 1/10W		R306 R307 R308 R309 R310	1-216-089-00 1-216-033-00 1-216-089-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 220 47K 47K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R244 R245 R246 R247 R248	1-216-065-00 1-216-679-11 1-216-103-00 1-216-093-00 1-216-095-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE		5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R311 R312 R313 R314 R315	1-216-089-00 1-216-089-00 1-216-033-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 220 47K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R249 R250 R251 R252 R253	1-216-109-00 1-216-101-00 1-216-105-00 1-216-101-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 150K 220K 150K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R316 R317 R318 R319 R320	1-216-105-00 1-216-109-00 1-216-105-00 1-216-099-00 1-216-099-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 330K 220K 120K 120K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R254 R255 R256 R258 R259	1-216-033-00 1-216-061-00 1-216-107-00 1-216-041-00 1-216-073-00	METAL GLAZE METAL GLAZE	220 3.3K 270K 470 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R321 R322 R323 R324 R325	1-216-043-00 1-216-109-00 1-216-109-00 1-216-109-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 330K 330K 330K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R260 R261 R262 R263 R264	1-216-025-00 1-216-035-00 1-216-097-00 1-216-029-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 270 100K 150 4.7K	5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W		R326 R328 R329 R330 R331	1-216-113-00 1-216-073-00 1-216-107-00 1-216-105-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 10K 270K 220K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R265 R266 R267 R268 R269	1-216-067-00 1-216-073-00 1-216-073-00 1-216-081-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 10K 10K 22K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R332 R333 R334 R335 R336	1-216-097-00 1-216-097-00 1-216-025-00 1-216-099-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 100 120K 82K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R270 R271 R272 R273 R2 7 5	1-216-081-00 1-216-025-00 1-216-101-00 1-216-113-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 100 150K 470K 22K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R337 R338 R339 R340 R341	1-216-105-00 1-216-025-00 1-216-099-00 1-216-095-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 100 120K 82K 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R276 R277 R2 78 R2 7 9	1-216-037-00 1-216-049-00 1-216-057-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 1K 2.2K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R342 R343	1-216-047-00 1-216-053-00	METAL GLAZE METAL GLAZE	820 1.5K	5% 5%	1/10W 1/10W	



REF. NO. PART NO.

DESCRIPTION

critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REMARK | REF. NO. PART NO.

The components identified by shading and mark $\hat{\Lambda}$ are critical for safety.
Replace only with part number

REMARK

specified.

<MODULE>

SEP101 1-808-654-11 MODULE

<CRYSTAL>

1-527-722-00 OSCILLATOR, CRYSTAL 1-577-259-11 VIBRATOR, CRYSTAL X101 X102

*A-1195-048-A P BOARD, COMPLETE

<CAPACITOR>

C80 C80 C80 C80 C80)2)3)4	1-162- 1-102- 1-123-	-104-11 -318-11 -228-00 -935-00 -004-00	ELECT CERAMIC CERAMIC ELECT CERAMIC	470MF 0.001MF 470PF 33MF 0.01MF	20% 10% 10% 20%	35V 500V 500V 160V 50V
C80 C80 C80 C80 C81	17 18 19	1-102- 1-106- 1-106-	-480-11 -228-00 -367-00 -375-12 -318-11	ELECT CERAMIC MYLAR MYLAR CERAMIC	470MF 470PF 0.01MF 0.022MF 0.001MF	20% 10% 10% 10% 10%	25V 500V 100V 100V 500V
	2 A. 3 4	1-137 1-106 1-106	-544-91 -545-91 -385-00 -383-00 -233-11	FILM FILM MYLAR MYLAR ELECT	0.01MF 0.013MF 0.056MF 0.047MF 22MF	3% 5% 10% 20%	600V 600V 200V 100V 50V
C81 C81 C81 C81 C82	7 8 9	Î-130 1-102 1-162	-798-11 -800-00 -228-00 -116-00 -116-00	ELECT FILM CERAMIC CERAMIC CERAMIC	1MF 2.2MF 470PF 680PF 680PF	20% 10% 10% 10% 10%	160V 250V 500V 2KV 2KV

<CONNECTOR>

PLUG, CONNECTOR 14P PIN, CONNECTOR (5MM PITCH) 4P PLUG, CONNECTOR 5P PLUG, CONNECTOR (2.5MM) 3P *1-564-508-11 *1-560-123-00

<DIODE>

DIODE RU-3AM DIODE RU-3AM DIODE RU-3AM DIODE EGP-2OG DIODE RU-3AM D806 D807 D808 D809 D810 DIODE RU-3AM DIODE RD6.2M-B1 THYRISTOR CRO.2AM-8 DIODE UOSG DIODE UOSG DIODE UOSG DIODE RU-3AM D811 D813 8-719-911-55 8-719-300-33

<COIL>

COIL (WITH CORE) COIL, AIR CORE COIL, DUST CORE 1-459-442-00 1-422-613-11 1-459-109-00 L803 L804 COIL, HORIZONTAL LINEARITY
INDUCTOR 4.7MMH 1-407-500-00

L807 1-407-500-00 INDUCTOR 4.7MMH

<NEON LAMP>

NL801 1-519-108-XX LAMP, NEON

Les composants identifies par une

trame et une marque A sont

<TRANSISTOR>

TRANSISTOR 2SC2958-L TRANSISTOR 2SC2555-2 HOLDER, IC: Q802 SCREW (M3X8), P. SW (+); Q802 SHEET, MICA: Q802 8-729-195-82 8-729-201-62 *4-363-404-00 4-382-854-01 4-879-937-00 Q801 Q802

DESCRIPTION

Q803 8-729-906-24 TRANSISTOR 2SD835

<RESISTOR>

R801 R802 R803 R804 R805	1-249-383-11 1-249-377-11 1-216-049-00 1-249-419-11 1-215-892-11	CARBON CARBON METAL GLAZE CARBON METAL OXIDE	1.5 0.47 1K 1.5K 1K	5% 5% 5% 5%	1/4W 1/10W 1/4W	13 73 73 73 73
R807 R808 R809 R810 R811	1-216-425-11 1-202-881-91 1-216-089-00 1-249-421-11 1-216-049-00	METAL OXIDE SOLID METAL GLAZE CARBON METAL GLAZE	56 470K 47K 2.2K 1K	5% 20% 5% 5%	1/2W 1/10W	F
R812 R813 R814	1-249-439-11 1-249-414-11 1-249-377-11	CARBON CARBON CARBON	68K 560 0.47	5% 5% 5%	1/4W	(* <u>,</u> (* <u>,</u> (* <u>,</u>

<VARIABLE RESISTOR>

RV801 1-223-102-00 RES, ADJ, WIREWOUND 120

<TRANSFORMER>

T801 1-437-082-31 HDT
T802 1.1-439-526-11 TRANSFORMER ASSY, FLYBACK

*1-641-723-11 FA BOARD ******

*4-341-751-01 EYELET *4-341-752-01 EYELET EY6, EY7 EY1, EY3, EY8, EY9

<CONNECTOR>

PIN, CONNECTOR (PC BOARD) 4P PIN, CONNECTOR (5MM PITCH) 3P PLUG, CONNECTOR 4P

<FUSE>

F601 A 1-532-745-11 FUSE, GLASS TUBE (3.15A/125V)
1-533-223-11 CLIP, FUSE; F601

<RESISTOR>

1.5M 10% 1/2WR602 1-202-721-00 SOLID

<SWITCH>



REF.NU.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
\$601 *****	1-692-049-11	SWITCH, PUSH	(AC POWER)	(1KEY)	*****	C453 C454 C460	1-124-234-00 1-128-499-61 1-126-301-11	ELECT ELECT ELECT	22MF 220MF 1MF	20% 20% 20%	16V 16V 50V
	A-1275-099-A	QA BOARD, COL	MPLETE *****			C461 C462	1-126-301 - 11 1-126-301-11	ELECT ELECT	1MF 1MF	20% 20%	50V 50V
	A-1275-099-A 1-537-408-11 1-537-410-11 *4-341-752-01	TERMINAL BOAL TERMINAL BOAL EYELET EY	RD, INPUT/OU RD, INPUT/OU 10.EY11	TPUT (LI TPUT (LI	INE B) INE A)	C464 C465 C466	1-126-301-11 1-126-301-11 1-163-031-11 1-163-031-11 1-163-031-11				50V 50V 50V
		ACITOR>				C467	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C401	1-124-234-00		22MF	20%	16V			NECTOR>			
C402 C403 C404 C405	1-124-234-00 1-124-234-00 1-124-234-00	ELECT ELECT ELECT ELECT	22MF 22MF 22MF 22MF 22MF	20% 20% 20% 20% 20%	16V 16V 16V 16V	CN401 CN402 CN403 CN404	1-506-494-11 *1-564-518-11 *1-580-690-11 *1-564-519-11	PIN, CONNECTO PLUG, CONNECTO PIN, CONNECTO PLUG, CONNECTO	OR 15P For 3P Or (PC Board) For 4P	4P	
C406 C407	1-124-234-00	ELECT	22MF 22MF	20% 20%	16V 16V		<dio< td=""><td>DE></td><td></td><td></td><td></td></dio<>	DE>			
C408 C409 C410		ELECT ELECT ELECT	0.1MF 22MF 22MF	20% 20% 20% 20%	50V 16V 16V	D401 D402	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			
C411 C412	1-124-234-00	ELECT ELECT	22MF 22MF	20%	16V 16V	D403 D404 D405	8-719-110-09 8-719-404-46 8-719-404-46	DIODE RD8.2ES DIODE MA110 DIODE MA110	5 -B 3		
C413 C414	1-124-234-00 1-126-157-11	ELECT ELECT	22MF 10MF	20%	16V 16V 16V	D406	8-719-404-46 8-719-404-46				
C415 C416	1-126-157-11 1-126-157-11		10MF 10MF	20%		D407 D408 D409	8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO			
C417 C418	1-126-157 - 11 1-126-157-11	ELECT ELECT	10MF 10MF	20% 20%	16V 16V 16V 16V	D410	8-719-404-46 8-719-404-46	DIODE MA110			
C419 C420	1-126-157-11 1-126-15 7 -11		10MF 10MF	20%	16V	D411 D412 D413	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO			
C421 C422 C423	1-102-125-00 1-124-464-11 1-126-157-11	ELECT	0.0047MF 0.22MF 10MF	10% 20% 20%	50V 50V 16V 16V	D414 D415	8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO			
C424 C425	1-126-157-11	ELECT	10MF 0.047MF	20% 10%	16V 100V	D416 D417	8-719-404-46 8-719-404-46	DIODE MA110			
C426 C42 7	1-128-499-61 1-128-499-61 1-124-589-11	ELECT ELECT	220MF 220MF 47MF	20%	16V 16V	D418 D419 D420	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110			
C428 C429 C430	1-124-234-00	ELECT ELECT CERAMIC CHIP	22MF	20%	16V 16V 50V	D421 D422	8-719-404-46 8-719-404-46	DIODE MAILO			
C431	1-124-234-00	ELECT	22MF	20%	16V	D423 D424	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			
C432 C433 C434	1-124-234-00	CERAMIC CHIP ELECT CERAMIC CHIP	22MF	20%	50V 16V 50V 16V	D425 D426 D427	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			
C435 C436	1-124-234-00 1-163-033-00	ELECT CERAMIC CHIP	22MF			D427 D428 D429	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO			
C437 C438	1-163 - 033-00 1-124-234-00	CERAMIC CHIP ELECT	0.022MF 22MF	20%	50V 50V 16V	D430	8-719-404-46	DIODE MA110			
C439 C440	1-163-033-00 1-163-033-00	CERAMIC CHIP CERAMIC CHIP	0.022MF 0.022MF		50V 50V	D431	8-719-404-46	DIODE MAILO			
C441 C442	1-124-234-00 1-163-033-00 1-163-033-00	ELECT CERAMIC CHIP CERAMIC CHIP	22MF 0.022MF	20%	16V 50V 50V 50V	IC401	<ic> 8-759~501-21</ic>	IC MM1149XF			
C443 C444 C445	1-163-033-00 1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.022MF		50V 50V 50V	IC401 IC402 IC403	8-759-501-21 8-759-501-21 8-759-420-04	IC MM1149XF IC AN5265			
C446 C44 7	1-163-031-11 1-126-301-11	CERAMIC CHIP	0.01MF 1MF	20%	50V 50V 16V		<c0i< td=""><td>L></td><td></td><td></td><td></td></c0i<>	L>			
C448 C449 C4 50	1-124-234-00 1-163-031-11 1-124-234-00	ELECT CERAMIC CHIP ELECT	22MF	20% 20% 20%	16V 50V 16V	L401 L402		INDUCTOR INDUCTOR	470UH 470UH		
C451	1-163-033-00	CERAMIC CHIP	0.022MF		50V	L402	1-410-002-31	Moseron	110011		
C452	1-128-499-61	ELECT	220MF	20%	16V						



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REF.NO	. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
Q401 Q402	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-9216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06	NSISTOR> TRANSISTOR 2: TRANSISTOR 2:	SC2412 SC2412	K-QR K-QR			R438 R439 R440	1-216-091-00 1-216-063-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE			1/10W 1/10W 1/10W	
Q403 Q404 Q405 Q406	8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2412 SC2412	-G K-QR K-QR			R441 R442 R443	1-216-089-00 1-216-049-00 1-216-748-11	METAL GLAZE METAL GLAZE METAL GLAZE	47K 1K 39K 75 1K	5% 5% 1% 5%	1/10W 1/10W 1/10W	
Q407 Q408 Q409	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2412 SC2412 SC2412 SC2412	K-UR K-QR K-QR K-QR			R444 R445	1-214-702-00 1-216-049-00 1-216-093-00	METAL GLAZE METAL GLAZE			1/4W 1/10W 1/10W	
Q410 Q411 Q412 Q413	8-729-920-74 8-729-216-22 8-729-216-22	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1162 SA1162	-C -G K-NK			R447 R448 R449 R450	1-216-091-00 1-216-063-00 1-216-027-00 1-214-702-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL	68K 56K 3.9K 120 75	5% 5% 5% 1%	1/10W 1/10W 1/10W 1/10W 1/4W	
Q414 Q416 Q417	8-729-216-22 8-729-145-18	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1162 SC3736	-G -G			R451 R452 R453	1-216-049-00 1-216-091-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 56K 68K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
0418 0419 0420	8-729-901-06 8-729-901-06 8-729-901-01	TRANSISTOR DO TRANSISTOR DO TRANSISTOR DO	A144E A144E C144E	Κ ((R454 R455	1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE	3.9K 330 33K		1/10W 1/10W	
Q421 Q422 Q423 Q424	8-729-901-06 8-729-901-01 8-729-901-06 8-729-901-06	TRANSISTOR DI	C144EI C144EI CA144EI	Κ Κ			R457 R458 R459 R460	1-216-085-00 1-247-707-11 1-216-748-11 1-216-089-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	33K 33K 390 39K 47K	5% 5% 5% 5%	1/10W 1/4W 1/10W 1/10W	
4121	<res< td=""><td>1STOR></td><td>114461</td><td>`</td><td></td><td></td><td>R461 R462 R463 R464</td><td>1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>100K 560K 220K 15K</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></res<>	1STOR>	114461	`			R461 R462 R463 R464	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 560K 220K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R401 R402 R403 R404	1-214-702-00 1-216-049-00 1-216-093-00 1-216-091-00 1-216-063-00	METAL METAL GLAZE METAL GLAZE	75 1K 68K	1% 5% 5%	1/4W 1/10W 1/10W		R465 R466	1-216-025-00 1-216-097-00 1-216-115-00 1-216-105-00	METAL GLAZE	100 100K 560K 220K		1/10W 1/10W 1/10W	
R405 R406 R407	1-216-063-00 1-216-037-00 1-216-748-11	METAL GLAZE	3.9K	5% 5%	1/10W 1/10W 1/10W		R468 R469 R470	1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	220K 15K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R408 R409 R410	1-216-085-00 1-214-702-00 1-216-049-00	METAL GLAZE METAL METAL GLAZE	330 39K 33K 75 1K	5% 5% 5% 5%	1/10W 1/4W 1/10W		R471 R472 R473 R474 R475	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 560K 220K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R411 R412 R413 R414	1-216-093-00 1-216-091-00 1-216-063-00 1-216-037-00	METAL GLAZE METAL GLAZE	68K 56K 3.9K 330 3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R475 R477 R479		METAL GLAZE	100		1/10W 1/10W 1/10W	
R415 R416 R417	1-216-061-00 1-216-023-00 1-216-049-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE	82 1 K		1/10W		R480 R481 R482	1-247-711-11 1-247-720-11 1-249-455-11	METAL GLAZE METAL GLAZE CARBON CARBON CARBON	680 3.9K 4.7	5% 5% 5%	1/4W 1/4W 1/4W	
R418 R419 R420	1-216-091-00 1-216-063-00	METAL GLAZE METAL GLAZE	68K 56K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R483 R484 R485 R486	1-249-389-11 1-216-041-00 1-247-688-11 1-216-037-00	CARBON METAL GLAZE CARBON METAL GLAZE	4.7 470 10 330	5% 5% 5% 5%	1/4W F 1/10W 1/4W F 1/10W	
R421 R422 R423 R424	1-216-027-00 1-214-702-00 1-214-702-00 1-216-049-00	METAL GLAZE METAL METAL GLAZE	120 75 75 1K 68K	5% 1% 5% 5%	1/10W 1/4W 1/4W 1/10W		R487 R488 R489	1-249-468-11 1-249-468-11 1-249-468-11	CARBON CARBON CARBON	330 82K 82K 82K		1/4W 1/4W 1/4W	
R425 R426 R427 R428	1-216-093-00 1-216-091-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 3.9K		1/10W 1/10W 1/10W		R490 R491 R492	1-216-057-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R429 R430	1-216-037-00 1-214-702-00 1-216-049-00	METAL GLAZE METAL METAL GLAZE	330 75 1K	5% 5% 1% 5%	1/10W 1/4W 1/10W		R493 R494 R495 R496	1-216-089-00 1-216-089-00 1-216-295-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 0 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R431 R432 R433 R434	1-216-091-00 1-216-063-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 56K 3.9K 120	5% 5% 5% 1%	1/10W 1/10W 1/10W 1/10W		R497 R498 R499	1-216-089-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K		1/10W 1/10W 1/10W	
R435 R436 R437	1-216-049-00	METAL METAL GLAZE METAL GLAZE	75 1K 68K	1% 5% 5%	1/4W 1/10W 1/10W		R1401 R1403	1-216-097-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 0 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W	



									G.	7	CA
REF.NO. PART	T NO.	DESCRIPTION	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
RV401 1-2:		RIABLE RESISTO				C512 C513 C514 C515	1-106-375-12 1-106-375-12 1-106-371-00 1-124-925-11	MYLAR MYLAR MYLAR ELECT	0.022MF 0.022MF 0.015MF 2.2MF	10% 10% 10% 20%	100 V 100 V 100 V 5 0V
*******	******	********	********	******	******		1-124-925-11	ELECT	2.2MF	20%	50 V
*1-64	41-720-11	CA BOARD				C517 C518 C519 C520	1-130-480-00 1-163-245-11 1-124-927-11 1-163-129-00	FILM CERAMIC CHIP ELECT CERAMIC CHIP	0.0056MF 56PF 4.7MF	20% 5% 5% 20% 5%	50V 50V 50V 50V 50V
1-52	26-958-41	SOCKET, CRT				C521 C523	1-124-907-11 1-106-363-00	ELECT	10MF	20%	50 Y
	<cai< td=""><td>PACITOR></td><td></td><td></td><td></td><td>l C524</td><td>1-106-363-00 1-102-116-00</td><td>MYLAR CERAMIC</td><td>0.0068MF 680PF</td><td>10% 10%</td><td>100V 50V</td></cai<>	PACITOR>				l C524	1-106-363-00 1-102-116-00	MYLAR CERAMIC	0.0068MF 680PF	10% 10%	100 V 50 V
C702 1-10	52-114-00 02-0 50 -00 61-8 3 0-00	CERAMIC CERAMIC CERAMIC	0.0047MF 0.01MF 0.0047MF	10% 99% 99%	2KV 500V 500V	C525 C526	1-102-820-00 1-102-973-00	CERAMIC CERAMIC	330PF 100PF	5% 5%	50V 50V 50V
C(10 1 10		NECTOR>	0.0047m	37h	7004	C527 C528 C529 C530	1-124-122-11 1-102-125-00 1-124-910-11 1-163-097-00	ELECT CERAMIC ELECT CERAMIC CHIP	100MF 0.0047MF 47MF 15PF	20% 10% 20% 5%	50V 50V 50V 50V 16V
CN701 *1-56	64- 5 09 - 11	PLUG. CONNEC	TOR 6P			C531	1-131-370-00	TANTALUM	6.8MF	10%	16V
CN702 *1-50 CN703 *1-56	08-784-00 54-508-11 <00	PLUG, CONNECT PIN, CONNECT PLUG, CONNECT	OR (5MM PITO TOR 5P	CH) 1P		C532 C533 C534 C535 C536	1-124-557-11 1-124-927-11 1-124-768-11 1-136-161-00 1-124-927-11	ELECT ELECT ELECT FILM ELECT	1000MF 4.7MF 4.7MF 0.047MF	20% 20% 20% 5% 20%	25V 50V 50V 50V 50V
1701 1 41			OFILL						4.7MF		
L701 1-41		INDUCTOR	27UH			C537 C538 C539 C540	1-124-484-11 1-124-910-11 1-136-113-00 1-163-017-00	ELECT ELECT FILM CERAMIC CHIP	220MF 47MF 2MF 0.0047MF	20% 20% 5% 10%	35V 50V 200V 50V
R701 1-20	2-871-91	SOLID	2.2K 20%	1/26		C541	1-163-035-00	CERAMIC CHIP	0.047MF	10/8	50V
R702 1-20 R703 1-20 R704 1-20	02-871-91 02-871-91 02-877-91 02-885-91	SOLID SOLID SOLID SOLID	2.2K 20% 2.2K 20% 2.2K 20% 100K 20% 1M 20%	1/2W 1/2W 1/2W 1/2W 1/2W		C542 C545 C546 C547	1-126-103-11 1-126-101-11 1-124-907-11 1-124-907-11	ELECT ELECT ELECT ELECT	470MF 100MF 10MF 10MF	20% 20% 20% 20%	16V 16V 50V 50V 50V
R706 1-20	2-878-91	SOLID	220K 20%	1/2W		C548	1-124-907-11	ELECT	10MF	20%	
						C549 C550		ELECT ELECT	10MF 10MF	20% 20%	50V 50V
	<var< td=""><td>IABLE RESISTO</td><td>R></td><td></td><td></td><td>C551 C552</td><td>1-124-907-11 1-124-927-11 1-101-004-00</td><td>ELECT CERAMIC</td><td>4.7MF 0.01MF</td><td>20%</td><td>50V 50V 50V 16V</td></var<>	IABLE RESISTO	R>			C551 C552	1-124-907-11 1-124-927-11 1-101-004-00	ELECT CERAMIC	4.7MF 0.01MF	20%	50V 50V 50V 16V
	60-164- 0 0 76-132-11 76-133-11	RES, ADJ, ME COVER (REAR COVER (MAIN)	LID). CV VOL	.: RV701		C553 C563	1-126-103-11 1-106-383-00	ELECT MYLAR	470MF 0.047MF	20% 10%	100V
*******	******	******	********	******	*******	C564 C567	1-162-318-11 1-124-907-11	CERAM1C ELECT	0.001MF 10MF	10% 20%	50 0 V 50 V
		D BOARD. COM				C568 C569	1-130-736-11	FILM F1LM	0.01MF 0.001MF	5% 5%	50Ý 50V
	10 010 11	*******				C570		CERAMIC CHIP		5%	50V 50V
3-71: *3-73: 4-38:	3-189-11 0-578-01 8-015-01 2-854-01 2-854-11	HOLDER, FUSE COVER, VOLUM COVER, (DIA. SCREW (M3X8) SCREW (M3X10	E, 6 MOLD 6) CARBON V . P. SW (+)	R		C571 C572	1-124-913-11 1-101-004-00 1-106-351-00 1-106-351-00	ELECT CERAMIC MYLAR	470MF 0.01MF 0.0022MF 0.0022MF	20% 10% 10%	50V 50V 100V 100V
. 50	a 031 11	0 0.1.2.11	,, ., 5 (.,				1-124-907-11 1-124-907-11	ELECT ELECT	10MF 10MF	20% 20%	50 V 50 V
	4-477-11	ACITOR> ELECT	47MF	20% 20%	16V 50V	C833 C834	1-163-009-11 1-163-121-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF	10% 5% 5%	50V 50V 50V
C503 1-126	4-907-11 6-103-11	ELECT ELECT	10MF 470MF	20% 20%	16V :	C836		ELECT		20%	50 v
C504 1-124 C505 1-106	4-902-00 6-381 - 12	ELECT MYLAR ELECT	0.47MF 0.039MF	20% 20% 10%	50V 100V	C839	1-106-347-00 1-136-163-00 1-106-351-00	MYLAR	0.0022MF	10% 5% 10%	100V 50V 100V
C507 1-10£	4-903-11 6-367-00	MYLAR	1MF 0.01MF	20% 10%	50V 100V			CERAMIC CHIP		5%	50V
C508 1-124 C509 1-136 C510 1-136	4-903-11 6-173-00 6-161-0 0	ELECT FILM FILM	1MF 0.47MF 0.047MF	20% 5% 5%	50V 50V 50V	C843 C844	1-124-902-00 1-124-902-00	CERAMIC CHIP ELECT ELECT ELECT	U.0015MF O.47MF O.47MF 47MF	5% 20% 20% 20%	50V 50V 50V 25V
C511 1-124	4 -9 0 3-11	ELECT	1MF	20%	50 v	C846	1-124-907-11	ELECT	10MF	20%	25 V 50 V
						C847	1-126-233-11	ELECT	22MF	20%	50 V



critiques pour la securite. Neles remplacer que par une piece portant le numero specifie. specified. **DESCRIPTION** REMARK | REF. NO. PART NO. DESCRIPTION REMARK REF. NO. PART NO. 35 V 50 V 50 V 50 V 50 V 8-719-404-46 8-719-404-46 8-719-404-46 TANTALUM 4.7MF
CERAMIC CHIP 0.0033MF
ELECT 10MF
CERAMIC CHIP 0.0022MF
ELECT 1MF DIODE MA110 DIODE MA110 DIODE MA110 C848 C849 C1601 C1602 C1603 1-131-351-00 1-164-182-11 1-124-907-11 1-164-161-11 1-124-903-11 D1612 D1613 D1614 10% 10% 20% 10% 20% D1615 D1616 D1617 D1618 D1621 8-719-404-46 8-719-404-46 8-719-977-49 8-719-977-49 8-719-510-12 DIODE MA110 DIODE MA110 DIODE DTZ15B DIODE DTZ15B DIODE D1OSC4M 50V 50V 50V 50V 50V C1604 C1605 C1606 C1607 C1608 1-128-500-51 1-124-922-11 1-102-074-00 1-124-907-11 1-126-233-11 ELECT ELECT CERAMIC ELECT ELECT 1000MF 1000MF 0.001MF 10MF 22MF 20% 20% 10% 20% 20% D1625 D1626 D1627 D1628 DIODE MAI10 DIODE MAI10 DIODE MAI10 DIODE MAI10 DIODE MAI10 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 1-163-009-11 1-124-927-11 1-126-233-11 1-130-025-91 1-163-009-11 CERAMIC CHIP 0.001MF
ELECT 4.7MF
ELECT 22MF
FILM 0.0039MF
CERAMIC CHIP 0.001MF 10% 20% 20% 5% 10% C1609 C1610 C1611 C1612 C1613 50V 50V 50V 50V 50V D1635 D1699 8-719-404-46 DIODE MA110 C1614 C1615 C1620 C1621 1-164-232-11 1-124-465-00 1-163-133-00 1-163-117-00 CERAMIC CHIP 0.01MF ELECT 0.47MF CERAMIC CHIP 470PF CERAMIC CHIP 100PF 10% 20% 5% 5% 50V 50V 50V 50V <FUSE> AF1601 1-532-777-21 FUSE, MICRO (SECONDARY) (1.25A/125Y) <10> <CONNECTOR> IC501 IC502 IC503 IC504 IC505 8-759-909-70 8-759-100-60 8-759-801-98 8-759-929-62 8-759-009-51 IC CX23025 IC UPC1377C IC LA7830 IC MC7812CT IC MC14538BF PLUG, CONNECTOR 3P PIN, CONNECTOR 12P PLUG, CONNECTOR 4P PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P CN501 *1-564-506-11 CN502 1-506-477-11 CN504 *1-564-507-11 CN505 *1-564-509-11 CN507 *1-564-511-11 IC831 8-759-509-29 IC832 8-759-509-37 IC833 8-759-009-51 IC1601 8-759-509-91 IC XRU4011BF IC XRU4070BF IC MC14538BF IC XRA10393F CN508 *1-564-104-00 PIN, CONNECTOR (B3P-VH) 3P CN509 *1-564-506-11 PLUG, CONNECTOR 3P <DIODE> 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 D501 D502 D503 D504 D505 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 <COIL> INDUCTOR 33MMH
INDUCTOR 15UH
COIL, CHOKE (PMC) 381.4UH
INDUCTOR 27UH
COIL (WITH CORE) 47UH 1-410-093-11 1-410-665-31 1-424-625-11 1-412-530-31 1-459-155-00 L501 L501 L502 L503 L506 L1601 D506 D507 D508 D509 D510 8-719-911-55 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 DIODE WOSG DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 COIL. CHOKE 390UH FERRITE BEAD INDUCTOR 1-424-626-12 1-410-397-21 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 D511 D512 D514 D831 D832 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 <TRANSISTOR> TRANSISTOR DTC144EK
TRANSISTOR DTC144EK
TRANSISTOR DTA144EK
TRANSISTOR DTC144EK
TRANSISTOR 2SC2412K-QR Q501 Q502 Q503 Q504 Q505 8-729-901-01 8-729-901-01 8-729-901-06 8-729-901-01 8-729-920-74 8-719-404-46 8-719-404-46 8-719-109-89 8-719-977-69 8-719-404-46 DIODE MA110 DIODE MA110 DIODE RD5.6ES-B2 DIODE DTZ24B DIODE MA110 D833 D834 D**8**35 TRANSISTOR DTC144EK
TRANSISTOR DTC144EK
TRANSISTOR 2SC2412K-QR
TRANSISTOR 2SC2412K-QR
TRANSISTOR DTA144EK Q506 Q507 Q508 Q509 D836 D837 D838 D1601 D1602 D1603 D1604 8-719-404-46 8-719-105-XX 8-719-404-46 8-719-977-61 8-719-404-46 DIODE MA110 DIODE RD6.2M-B1 DIODE MA110 DIODE DTZ20B DIODE MA110 à51ó TRANSISTOR DTC144EK
TRANSISTOR 2SC2412K-QR
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SD1134-C 9511 9512 9513 9514 9515 8-729-901-01 8-729-920-74 8-729-216-22 8-729-216-22 8-729-313-42 D1605 D1606 D1607 D1608 D1609 DIODE MA110 DIODE ERC81-004 DIODE ERC81-004 DIODE DTZ5.6A DIODE DTZ15B 8-719-404-46 8-719-981-00 8-719-981-00 8-719-977-02 8-719-977-49 8-729-901-01 8-729-901-01 8-729-920-74 8-729-920-74 8-729-920-74 TRANSISTOR DTC144EK
TRANSISTOR DTC144EK
TRANSISTOR 2SC2412K-QR
TRANSISTOR 2SC2412K-QR
TRANSISTOR 2SC2412K-QR Q516 Q517 Q518 Q519 Q525 8-719-404-46 DIODE MA110 8-729-101-31 TRANSISTOR N13T1

The components identified by shading and mark Δ are critical for safety.
Replace only with part number

Les composants identifies par une trame et une marque Δ sont



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
Q532 Q533 Q833 Q834	8-729-920-74 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	5C2412K 5C2412K 5A1162- 5C2412K	C-QR C-QR -G C-QR			R535 R536 R537		METAL GLAZE FUSIBLE METAL OXIDE				F
Q835 Q836 Q1601 Q1602	8-729-920-74 8-729-309-08 8-729-920-74 8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	5C2412K 5C1890A 5C2412K 5C2412K	:-QR :-QR :-QR			R538 R539 R540 R541 R542	1-216-095-00 1-216-095-00 1-216-101-00 1-216-063-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 82K 150K 3.9K 12K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q1603 Q1604 Q1605 Q1606	8-729-920-74 8-729-216-22 8-729-119-80 8-729-133-42	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	6C2412K 6A1162- 6C2688- 6C2334-	-QR G LK L			R543 R544 R545 R546	1-216-065-00 1-216-101-00 1-216-041-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 150K 470 56K 1M		1/10W 1/10W 1/10W 1/10W	
Q1608 Q1609	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S	C2412K C2412K C2412K	-QR -QR -QR			R548 R549	1-216-121-00 1-216-107-00 1-216-101-00	METAL GLAZE			1/10W 1/10W 1/10W	
Q1610 Q1611 Q1612 Q1613	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2412K C2412K C2412K C2412K	-QR -QR -QR -OR			R550 R552 R553	1-216-356-00 1-216-061-00 1-216-748-11	METAL OXIDE	270K 150K 3.9 3.3K 39K		1W 1/10W 1/10W	F
Q1614 Q1615 Q1616 Q1617	8-729-920-74 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 25	C2412K A1162- A1162- A1162-	−QR G G			R554 R555 R557 R558 R559	1-216-073-00 1-216-077-00 1-216-057-00 1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 15K 2.2K 1K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
#1019	%-729-210-22 <res< td=""><td>1STOR></td><td>A1102-</td><td>u</td><td></td><td></td><td>R560 R561 R562 R563</td><td>1-216-037-00 1-216-081-00 1-216-053-00 1-216-061-00 1-249-415-11</td><td>METAL CLAZE</td><td>330 22K 1.5K 3.3K 680</td><td>5%%%% 5%%%%%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></res<>	1STOR>	A1102-	u			R560 R561 R562 R563	1-216-037-00 1-216-081-00 1-216-053-00 1-216-061-00 1-249-415-11	METAL CLAZE	330 22K 1.5K 3.3K 680	5%%%% 5%%%%%	1/10W 1/10W 1/10W 1/10W	
D1619 D1620 JR510 R501	1-216-295-00 1-216-295-00 1-216-295-00 1-216-089-00	TRANSISTOR 2S ISTOR> METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE CARBON CARBON	0 0 0 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R564 R565 R566					1/4W 1/10W 1/10W	F
R502 R503 R504	1-216-089-00 1-249-437-11 1-216-073-00	CARBON METAL GLAZE	47K 47K 10K	5% 5%	1/10W 1/4W F 1/10W	i	R567 R568 R569 R570	1-216-095-00 1-216-063-00 1-216-063-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 100 82K 3.9K 3.9K 68K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R505 R506 R507	1-249-393-11 1-216-071-00 1-216-059-00	CARBON METAL GLAZE METAL GLAZE	10 8.2K 2.7K	5% 5% 5%	1/4W F 1/10W 1/10W		R571 R572 R573	1-216-089-00 1-216-095-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K	5% 5%	1/10W 1/10W 1/10W	
R508 R509 R510 R511	1-216-085-00 1-216-687-11 1-216-683-11 1-216-675-11	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 33K 22K 10K	5% 0.50% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W		R574 R575 R576	1-216-063-00 1-216-105-00 1-216-109-00	METAL GLAZE METAL GLAZE	3.9K 3.9K 220K 330K		1/10W 1/10W 1/10W 1/10W	
R512 R513 R514 R515	1-218-761-11 1-216-065-00 1-216-099-00	METAL CHIP METAL GLAZE METAL CHIP	240K 4.7K 120K	0.50% 5% 0.50%	1/10W 1/10W 1/10W		R577 R578 R579 R591 R592	1-216-105-00 1-249-457-11 1-249-457-11 1-216-063-00	METAL GLAZE METAL GLAZE CARBON CARBON METAL GLAZE	220K 6.8 6.8 3.9K	5% 5% 5% 5%	1/4W 1/4W 1/10W	F F
R515 R516 R517	1-216-081-00 1-216-073-00 1-216-107-00	METAL GLAZE METAL GLAZE METAL CHIP	22K 10K 270K	5% 5% 0.50%	1/10W		R831	1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 220 1K	5% 5% 5%	1/10W 1/10W	
R518 R519 R520 R521 R522	1-249-422-11 1-216-085-00 1-216-677-11 1-216-067-00 1-216-107-00	CARBON METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	2.7K 33K 12K 5.6K 270K	5% 5% 0.50% 5% 5%	1/4W F 1/10W 1/10W 1/10W 1/10W		R832 R833 R834 R835 R836	1-216-075-00 1-216-065-00 1-216-059-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 4.7K 2.7K 22K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R523 R524 R525 R526 R527	1-216-081-00 1-216-049-00 1-216-434-11 1-216-079-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	22K 1K 1.8K 18K 47K	5% 5%	1/10W 1/10W 1W F 1/10W 1/4W F		R837 R838 R839 R840 R841	1-216-075-00 1-216-049-00 1-216-061-00 1-216-097-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 1K 3.3K 100K 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R528	1-249-437-11 1-216-073-00 1-216-073-00 1-216-089-00	ÇARBON METAL GLAZE METAL GLAZE	47K 10K 10K 47K		1/4W F 1/10W 1/10W 1/10W 1/10W		R842 R843 R844	1-216-093-00 1-216-065-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	68K 4.7K 15K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R530 R531 R532	1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R847 R850	1-216-049-00 1-216-085-00	METAL GLAZE METAL GLAZE	33K		1/10W 1/10W	
K533 R534	1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE	47K 100K	5% 5%	1/10W 1/10W		R852 R853 R854	1-216-669-11 1-216-675-11 1-216-105-00 1-216-099-00 1-216-697-11	METAL CHIP METAL CHIP METAL GLAZE METAL CHIP METAL CHIP	5.6K 10K 220K 120K 82K	0.50% 0.50% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	



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Ne les remplacer que par une piece portant le numero specifie.

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REF.NO. PA	ART NO.	DESCRIPTION				REMARK	REF.NO. PART NO. DESCRIPTION REMAR
DOEZ 1	217 700 11	METAL CHID	1002	0.50%	1 /104		
R861 1- R862 1- R863 1- R1503 1- R1504 1-	-216-671-11 -216-675-11 -249-435-11 -216-049-00 -216-695-11	METAL CHIP METAL CHIP CARBON METAL GLAZE METAL CHIP	6.8K 10K 33K 1K 68K	0.50% 0.50% 5% 5% 0.50%	1/10W 1/10W 1/4W 1/10W 1/10W	F	R1649 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R1650 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R1651 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R1652 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R1653 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R1655 1-216-081-01 METAL CH1P 18K 0.50% 1/10W R1655 1-216-081-00 METAL GLAZE 22K 5% 1/10W R1656 1-216-081-00 METAL GLAZE 22K 5% 1/10W R1657 1-216-081-00 METAL GLAZE 22K 5% 1/10W R1658 1-216-083-00 METAL GLAZE 3.9K 5% 1/10W R1659 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R1650 1-216-065-00 METAL GLAZE 3.9K 5% 1/10W R1651 1-216-065-00 METAL GLAZE 3.9K 5% 1/10W
R1505 1- R1506 1- R1507 1- R1508 1- R1509 1-	-216-089-00 -216-667-11 -216-081-00 -216-073-00 -216-065-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	47K 4.7K 22K 10K 4.7K	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1658 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R1659 1-216-049-00 METAL GLAZE 1K 5% 1/10W R1660 1-216-649-11 METAL CHIP 820 0.50% 1/10W R1661 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W
R1510 1- R1511 1- R1512 1- R1513 1- R1519 1-	-249-425-11 -216-033-00 -216-049-00 -216-017-00 -216-031-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 1K 47 180	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W	F	<pre><variable resistor=""> RV501 1-238-019-11 RES, ADJ, CARBON 47K RV502 1-238-017-11 RES, ADJ, CARBON 22K RV503 1-241-701-11 RES, ADJ, CERMET 4.7K</variable></pre>
R1601 1- R1602 1- R1603 1- R1604 1-	-216-685-11 -216-681-11 -216-671-11 -249-433-11	METAL GLAZE METAL CHIP METAL CHIP METAL CHIP CARBON	1.5K 27K 18K 6.8K 22K	5% 0.50% 0.50% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	F	RV504 1-224-250-99 RES, ADJ, METAL GLAZE 2.2K RV505 1-238-009-11 RES, ADJ, CARBON 220 RV506 1-238-012-11 RES, ADJ, CARBON 1K RV507 1-238-013-11 RES, ADJ, CARBON 2.2K RV508 1-238-012-11 RES, ADJ, CARBON 1K
R1607 1- R1608 1-	-216-071-00 -216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 4.7K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV507 1-238-013-11 RES, ADJ, CARBON 2.2K RV508 1-238-021-11 RES, ADJ, CARBON 1K RV509 1-238-021-11 RES, ADJ, CARBON 220K RV511 1-238-015-11 RES, ADJ, CARBON 4.7K RV512 1-238-015-11 RES, ADJ, CARBON 4.7K RV514 1-238-019-11 RES, ADJ, CARBON 47K RV515 1-238-021-11 RES, ADJ, CARBON 220K RV516 1-241-701-11 RES, ADJ, CERMET 4.7K RV831 1-228-997-00 RES, ADJ, METAL GLAZE 100K
R1611 1- R1612 1- R1613 1-	-216-057-00 -216-057-00 -215-913-11 -216-025-00 -216-067-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	2.2K 2.2K 220 100 5.6K	5%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 3W 1/10W 1/10W	F	RV516 1-241-701-11 RES, ADJ, CERMET 4.7K RV831 1-228-997-00 RES, ADJ, METAL GLAZE 100K RV832 1-241-702-11 RES, ADJ, CERMET 10K BRV833 A RES, ADJ, CERMET RV1601 1-241-700-11 RES, ADJ, CERMET 2.2K
R1617 1-	-216-657-11 -216-629-11 -216-659-11 -216-073-00 -216-065-00	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	1.8K 120 2.2K 10K 4.7K	0.50% 0.50% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV831 1-228-997-00 RES, ADJ, CERMET 10K RV832 1-241-702-11 RES, ADJ, CERMET 10K RV833 1 RES, ADJ, CERMET RV1601 1-241-700-11 RES, ADJ, CERMET 2.2K RV1602 1-238-012-11 RES, ADJ, CARBON 1K RRV1603 A RES, ADJ, CERMET <relay> RV1601 1-515 401 21 RELAY (C2R 212R-V)</relay>
R1623 1- R1624 1-	-216-073-00 -216-073-00 -216-073-00 -216-246-00 -216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 100K 3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W		RY1601 1-515-481-21 RELAY (G2R-212P-V) <transformer> T1601 1-437-216-11 TRANSFORMER, DR1VE</transformer>
R1627 1- R1628 1- R1629 1-	-216-049-00 -216-073-00 -216-6 8 3-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	4.7K 1K 1OK 22K 22K	5% 5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		**************************************
R1632 1- R1633 1- R1634 1-	-216-057-00 -216-042-00 -216-109-00 -216-099-00 -216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 510 330K 120K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		*4-348-208-00 HOLDER, LED *4-341-752-01 EYELET EY5 <connector></connector>
R1640 1- R1641 1- R1642 1-	-216-063-00 -216-073-00 -216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 3.9K 10K 10K 6.8K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		CNOO1 1-506-478-11 PIN, CONNECTOR 13P CNOO2 1-506-473-11 PIN, CONNECTOR 8P <d10de></d10de>
R1645 1- R1646 1-	-216-073-00 -216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL CH1P	6.8K 10K 10K 27K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W		D001 8-719-920-05 D10DE SLP281C-50 D002 8-719-109-68 D10DE RD3.6ESB1

НА	X	S

REF. NO.	PART NO.	DESCRIPTION	REMA	ARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
JW009 JW024 KU01		SISTOR> METAL GLAZE 0 5% METAL GLAZE 0 5% CARBON 1K 5%	1/10W 1/10W 1/4W		C1111 C1112 C1113	1-163-018-00 1-126-160-11 1-163-119-00 1-163-103-00	CERAMIC CHIP	1MF 120PF 27PF	10% 20% 5% 5% 10%	50V 50V 50V 50V 25V
R003 R004			1/10W 1/10W 1/10W		C1117 C1118 C1119	1-163-020-00	ELECT CERAMIC CHIP	47MF 0.1MF 0.0082MF	5% 20% 10% 10% 5%	50V 16V 25V 50V 50V
	<v af<="" td=""><td>HABLE RESISTOR></td><td></td><td></td><td>C1121</td><td>1-163-097-00</td><td>CERAMIC CHIP</td><td>15PF</td><td>5%</td><td></td></v>	HABLE RESISTOR>			C1121	1-163-097-00	CERAMIC CHIP	15PF	5%	
RV002	1-241-846-11	RES, VAR, CARBON 20K				1-163-097-00 1-163-097-00 1-163-222-11 1-163-097-00 1-163-097-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	5PF 15PF 15PF 15PF	5% 0.25PF 5% 5% 5%	50V 50V 50V 50V
RV006 RV007	1-241-845-11 1-226-773-11	RES, VAR, CARBON 20K RES, ADJ, METAL GLAZE 22K				<con< td=""><td>NECTOR></td><td></td><td></td><td></td></con<>	NECTOR>			
RV008	1-226-773-11	RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K			CN1101:	*1-565-488-11	CONNECTOR, BO	ARD TO BOAF	RD 12P	
		RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K				010>	DE>			
RVO11 RVO12	1-226-773-11	RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K			D1101 D1102	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			
		TCH>				<1C>				
S001 S002 S003 S004	1-554-419-1111	SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY)			IC1101	8-752-056-67	IC CXA1214P			
S005		SWITCH, PUSH (1 KEY)				<c01< td=""><td></td><td></td><td></td><td></td></c01<>				
		SWITCH, PUSH (1 KEY)			L1101 L1102	1-408-411-00 1-404-496-00	INDUCTOR COIL	15UH		
	1-641-724-11	X BOARD	******	***	L1103 L1104 L1110	1-404-496-00 1-404-496-00 1-408-411-00 1-412-008-31	INDUCTOR INDUCTOR CHIP	150H 150H		
		*****			L1111	1-412-008-31	INDUCTOR CHIP	15UH		
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td><tpa)< td=""><td>NSISTOR></td><td></td><td></td><td></td></tpa)<></td></con<>	NECTOR>				<tpa)< td=""><td>NSISTOR></td><td></td><td></td><td></td></tpa)<>	NSISTOR>			
€N21 *	1-564-518-11	PLUG, CONNECTOR 3P			Q1101			A1162-G		
	OIG>	DE>			01102 01103	8-729-216-22 8-729-920-74 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S	C2412K-QR A1162-G		
D21 D22	8-719-023-78 8-719-023-78	DIODE SEL3810DLC05 DIODE SEL3810DLC05			Q1104 Q1105	8-729-216-22 8-729-901-01	TRANSISTOR 2S TRANSISTOR DT			
	8-719-023-78	DIODE SEL3810DLC05			Q1106 Q1107	8-729-901-01 8-729-109-44	TRANSISTOR DT TRANSISTOR 2S			
		************	********	***	Q1108	8-729-109-44 8-729-920-74	TRANSISTOR 2S	C2412K-QR		
	A-1394-343-A	S BOARD, COMPLETE				<res1< td=""><td>STOR></td><td></td><td></td><td></td></res1<>	STOR>			
	<cap.< td=""><td>ACITOR></td><td></td><td></td><td>R1101 R1102</td><td>1-216-053-00 1-216-067-00</td><td>METAL GLAZE METAL GLAZE</td><td>1.5K 5% 5.6K 5%</td><td>1/10W I/10W</td><td></td></cap.<>	ACITOR>			R1101 R1102	1-216-053-00 1-216-067-00	METAL GLAZE METAL GLAZE	1.5K 5% 5.6K 5%	1/10W I/10W	
C1101 C1102	1-163-119-00 1-164-004-11	CERAMIC CHIP 120PF 5% CERAMIC CHIP 0.1MF 10	% 50V		R1104	1-216-059-00 1-216-073-00 1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 5% 10K 5% 180 5%	1/10W 1/10W 1/10W	
C1103 C1104	1-12 4-5 89-11 1-163- 031- 11	ELECT 47MF 20 CERAMIC CHIP 0.01MF	0% 16V 50V		R1106	1-216-059-00	METAL GLAZE		1/10W	
C110 5	1-163-114-00	CERAMIC CHIP 75PF 5%	500		R1107 R1108	1-216-071-00 1- 216-039-00	METAL GLAZE METAL GLAZE	2.7K 5% 8.2K 5% 390 5% 3.9K 5% 6.8K 5%	1/10W 1/10W 1/10W	
C110 7	1-163-101-00 1-164-00 4 -11 1-163-119-00	CERAMIC CHIP 22PF 5% CERAMIC CHIP 0.1MF 10 CERAMIC CHIP 120PF 5%)% 25V			1-216-063-00 1-216-069-00	METAL GLAZE METAL GLAZE	3.9K 5% 6.8K 5%	1/10W 1/10W	
C11 0 9	1-163-031-11 1-163-117-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF 5%	507		R1112	1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 3.9K 5% 6.8K 5%	1/10W I/10W 1/10W	



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REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO. DESCRIPTION REMARK				
R1114 1-216-055-00 R1115 1-216-061-00 R1116 1-216-069-00 R1117 1-216-061-00 R1118 1-216-073-00	METAL GLAZE 1.8K 5% METAL GLAZE 3.3K 5% METAL GLAZE 6.8K 5% METAL GLAZE 3.3K 5% METAL GLAZE 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		D201 <u>A</u> 8-719-971-08 DIODE ESAC39M 06C D601 <u>A</u> 8-719-510-27 DIODE D3SB60 D602 <u>A</u> 8-719-921-20 DIODE ISS119TD D603 <u>A</u> 8-719-981-47 DIODE ERA38-06TP1 D604 <u>A</u> 8-719-981-47 DIODE ERA38-06TP1				
R1119 1-216-049-00 R1120 1-216-097-00 R1121 1-216-121-00 R1122 1-216-039-00 R1123 1-216-065-00	METAL GLAZE 1K 5% METAL GLAZE 100K 5% METAL GLAZE 1M 5% METAL GLAZE 390 5% METAL GLAZE 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		D605 4.8-719-113-44 DIODE RD20ES-T1B3 D651 4.8-719-971-08 DIODE ESAC39M 06C				
R1124 1-216-029-00 R1125 1-216-029-00 R1126 1-216-053-00 R1127 1-216-043-00 R1128 1-216-049-00	METAL GLAZE 150 5% METAL GLAZE 150 5% METAL GLAZE 1.5K 5% METAL GLAZE 560 5% METAL GLAZE 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		IC601.A.1-809-086-12 HIC CH-1018				
R1129 1-216-091-00 R1130 1-216-295-00 R1131 1-216-073-00 R1132 1-216-073-00 R1133 1-216-073-00	METAL GLAZE 56K 5% METAL GLAZE 0 5% METAL GLAZE 10K 5% METAL GLAZE 10K 5% METAL GLAZE 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		<pre><coll> L601 ★1-424-616-11 TRANSFORMER, LINE FILTER L602 ★1-424-574-11 L.F.T L651 ★1-424-255-41 COIL, CHOKE (MOLDE) 10UH L652 ★1-424-615-11 COIL, CHOKE</coll></pre>				
R1134 1-216-091-00	METAL GLAZE 56K 5%	1/10W		<transistor></transistor>				
	1ABLE RESISTOR> RES, ADJ, CARBON 4.7K			Q601 ▲8-729-322-18 TRANSISTOR 25K1402A				
RV1102 1-238-013-11	RES, ADJ, CARBON 2.2K			<resistor></resistor>				
	NSFORMER>			R601 A1-205-940-51 CEMENT 1.5 5% 5W F R602 A1-205-940-51 CEMENT 1.5 5% 5W F				
T1101 1-404-584-11	COIE	******	******	R603 Å1-215-904-11 METAL OXIDE 100K 5% 2W F R604 Å1-215-904-11 METAL OXIDE 100K 5% 2W F R605 Å1-212-865-61 FUSIBLE 22 5% 1/4W F				
	G BOARD (SOPS-1021)							
4-812-134-11	RIVET NYLON, 3.5 ø			R606 ::1-247-805-91 CARBON 82 5% 1/4W R607 ::1-260-128-91 CARBON 270K 5% 1/2W R608 ::1-260-128-91 CARBON 270K 5% 1/2W R609 ::1-215-904-51 METAL OXIDE 100K 5% 2W F R610 ::1-207-455-11 WIRE 0.22 10% 1/2W				
<cap< td=""><td>ACITOR></td><td></td><td></td><td>R611 A1-247-789-91 CARBON 18 5% 1/4W</td></cap<>	ACITOR>			R611 A1-247-789-91 CARBON 18 5% 1/4W				
C602 A.1-136-889-11 C603 A.1-161-973-51	CERANIC 220PF		250V 250V 400V 400V	R613 A 1-215-904-51 METAL OXIDE 100K 5% 2W F R614 A 1-247-815-91 CARBON 220 5% 1/4W R651 A 1-215-886-51 METAL OXIDE 100 5% 2W F				
C605 &1-161-973-51 C608 &1-161-742-51 C609 &1-161-742-51 C610 &1-125-724-11		110%	400V 400V 400V 400V	R652 ± 1-215-886-51 METAL OXIDE 100 5% 2W F R653 ± 1-260-107-91 CARBON 4.7K 5% 1/2W R654 ± 1-260-107-91 CARBON 4.7K 5% 1/2W R655 ± 1-247-867-91 CARBON 33K 5% 1/4W R656 ± 1-247-867-91 CARBON 33K 5% 1/4W				
C611 A 1-136-206-21 C612 A 1-124-910-51	METALIZED FILM 0.033NF ELECT 47NF	101 201	630V 50V	R657 A 1-247-837-91 CARBON 1.8K 5% 1/4W 313.3ND . GRAPP 2 A ESE-PUEL-A				
C613 A1-137-190-91 C614 A1-137-190-91 C615 A1-130-471-91 C651 A1-161-925-11 C652 A1-128-486-51	METALIZED FILM 0.22MF METALIZED FILM 0.22MF PE TEREPHTHALATE 0.001MF CERAMIC 100PF B ELECT 680MF	5% 5% 5% 10% 20%	50V 50V 50V 500V 500V	<pre><variable resistor=""> ENRY651 * 1-237-443-11 RES, ADJ, CARBON 1K</variable></pre>				
C653 入1-128-485-51			50V 50V	<transformer></transformer>				
2017 3	RECTOR>	0.70-,310		T601 d.1-450-760-11 TRANSPORMER, CONVERTER				
	HORIZONTAL PIN ASSY 3P		i oliji	i de la constitue de la consti				
RF 1/105	we a death most mill	37077167	l iiiid					
<d10< td=""><td>July 1</td><td></td><td></td><td>A: 1-413-720-11 SWITCHING REGULATOR (SUPS-1021) A: 1-413-720-31 SWITCHING REGULATOR (SUPS-1021)</td></d10<>	July 1			A: 1-413-720-11 SWITCHING REGULATOR (SUPS-1021) A: 1-413-720-31 SWITCHING REGULATOR (SUPS-1021)				

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REF.NO. PART NO.	DESCRIPTION	REMARK
	No gott beauties	
1-426-043	-OO COIL, DEGAUSSING	
▲.1-451-319	-22 DEFLECTION YOKE (Y9FXC)	30
1-452-126	-11 MAGNET	
STATE OF THE PARTY		
A.1-532-747	-11 FUSE, GLASS TUBE (5A/12	5 Y 1
1-544-252	-11 SPEAKER	
	II S. BIIRBR	
1 555 724	OO HIDE CROUND	
1-555-724-		
A.8-737-151-	-05 CRT (A20JKU10X) (PVM-)	RO410 OXLY)
A.8-737-651		
200 0 3 / 3 / 5 U J L	-05 CRT (M2OJMP1OX) (PVM-)	80440 ONLY)

ACCESSORIES & PACKING MATERIALS *******************

PART NU.	DESCRIPTION	REMARK
A. 1-551-812-11 1-690-871-11 2-990-241-02 2-990-242-01 *3-704-301-01	CORD, POWER (10A/125Y) CABLE (MINI DIN) 8P HOLDER (A), PLUG HOLDER (B), PLUG BAG (STANDARD), PROTEC	
3-754-506-11 4-034-835-01 *4-034-954-01 *4-034-955-01 *4-034-956-01	MANUAL, INSTRUCTION PLATE, TALLY INDIVIDUAL CARTON CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY)	(PVM-8041Q ONLY)
*4-035-602-01	INDIVIDUAL CARTON	(PVM-8044D ONLY)